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**ISSUE: 97-48** 

Federal Aviation
Administration





November 23, 1997 - November 29, 1997

### Summary

**GENERAL AVIATION, ZAC-327** 

You can improve Air Safety by reporting the problem when you see it!

### **SECTION**

- I Significant Occurence Report
- **II Domestic Service Difficulty Report**
- III International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model
- VI Joint Aircraft System/Component Code Table



### **SDR SUMMARY**

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

The Regulatory Support Division (AFS-600) has established a "HomePage" on the Internet through which the same information is available. There is a large quantity of other information available through the AFS-600 HomePage such as the most current SDR system codes (i.e., Joint Aircraft System\Component Codes). The SDR Question and Answer Section of the Summary will also be transferred to the AFS-600 HomePage to simplify the process of preparing the SDR Summaries in the PDF format each week. There are "hot buttons" to take you to other locations and sites where FAA Flight Standards Service Information is available. The AFS-600 "HomePage" address is:

### http://www.mmac.jccbi.gov/afs/afs600

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029

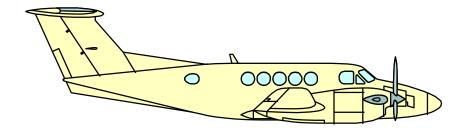
Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

john\_e\_jackson@mmacmail.jccbi.gov

james\_gillespie@mmacmail.jccbi.gov

blake\_mcdonald@mmacmail.jccbi.gov



# SIGNIFICANT OCCURRENCE REPORT





### THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2823	477RM	AMTR				SELECTOR VALVE	MISMANUFACTURI	EC12	11/12/97
	LIV060	LANCAIR				FU560	FUEL SELECTOR		97ZZZX4843
****	CONFIGURATION A 'OFF/BOTH/LEF' WAS EMPTY AND	. THE VALVE WAS MO Γ/RIGHT' MODE OF OPI	DIFIED BY A 'NON-M ERATION. THE KIT M WAS BEING USED, TH	ANUFACTURER SOU ANUFACTURER DOE HE SUBJECT VALVE	RCE'. THE CONFIGUES NOT RECOMMEN	D BY THE KIT MANUFACT JRATION OF THE VALVE V D A 'BOTH' POSITION FOR FROM THE EMPTY TANK	WAS CHANGED FROM A THESE AIRCRAFT. TES	AN 'OFF/LEF STS SHOWE	T/RIGHT' OPERATION TO D WHEN ONE FUEL TANK
7240	400AC	BEECH	GARRTT			PLENUM	FAILED	9187	11/4/97
	BE12	B100	TPE3316				RT ENG	850	97ZZZX4851
****	WAS JAMMED. TI REVEALED THAT INOP. INSP OF TH	HE ENG WAS SHUT DO THE PLENUM CASE BI E PLENUM CASE SUGO	WN USING THE FIREV ROKE OPEN RADIALL GESTS THAT A CRACI	WALL SOV. FIRE BO LY TOWARD THE TO K BEGAN AT THE PO	TTLE WAS DISCHAR P OF THE ENG. THE INT WHERE THE WI	THE RT ENG. UNABLE TO GED AND FIRE WAS PUT ( OPENED PART WAS JAMN ELDS OF BLEED AIR, AND PEN TOTAL IS 24 INCHES.	OUT. THE LEFT ENG SE MED BEHIND THE EMER	CURED AN	D ACFT EVAC. INSP LEVER RENDERING IT
7200		BEECH	PWA			ENGINE	FAILED		10/3/97
		200BEECH	PT6A41				EXHAUST STACK		CA971015062
****	LANDED WITHOU RUN REVEALED T MINOR COATING	T INCIDENT. POST FLI THAT MAX TGT WAS A	GHT BORESCOPE INS CHIEVED PRIOR TO T E ASSEMBLY WITH R	SPECTION FOUND NO FARGET TORQUE. GA	O ABNORMALITIES. AS GENERATOR SPE	METERS WERE NORMAL. FUEL NOZZELS AND THE ED AND FUEL FLOW WER CT BLADES ROOTS. THE I	OIL FILTERS WERE UN E ALSO HIGH. REMOVA	CONTAMIN L OF THE P	ATED. A MAINTENANCE OWER SECTION FOUND
5210	831FG	HUGHES				DOOR	DEPARTED		10/3/97
	830511S	369HS				90210001	CABIN RT MAIN		97ZZZX4860
****	STC SH2530 NM. I	DISCOVERED DURING	INSPECTION THAT T	HE LATCHING FEAT	URE USED WAS NO	NGES WERE MODIFIED BY I PROPERLY ENGAGED AI OLLOW. THE STC NEEDS	LOWING THE DOOR TO	O DEPART T	THE HELICOPTER.
6320	161KA	KAMAN			KAMAN	OIL PUMP	SEIZED	1687	11/6/97
HEAA	A940016	K1200			K974002101	K974120107	M/R TRANSMISSIO	N	97ZZZX4858
*****	WELL AS OIL PUM		AFT WAS INCORPORA	ATED IN OIL PUMP, O		USED DAMAGE TO PUMP I HAVE NEEDED CHARGIN			

### Run Date: 05-Dec-97

### FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

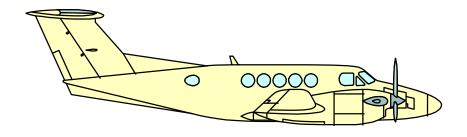
Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: 11/23/97 To 11/29/97

PART NUMBER								YEAR					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
39140653													
LINK	DC932	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 3914065	3	1	-	_	-				-	_		-	1
90210001													
DOOR	369HS	1											1
TOTAL of # 9021000	1	1	-	-	-	-	-	-	-	-	-	-	1
99710000804													
EXHAUST MANIFOLD	unknown	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 9971000	0804	1		_			-			_		_	1
AN2616													_
BOLT	DC932	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # AN2616		1						-	-			-	1
FU560													
SELECTOR VALVE	LANCAIR	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # FU560 -		1		-		-	-		-	_		-	1
K974120107													
OIL PUMP	K1200	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # K974120	0107	1		_			-			_		_	1
M832481012													
PACKING	230	1	-	-	-	-	-	-	-	-	1	-	-
TOTAL of # M832483	1012	1	-	-	-	-	_	-	-	-	1	-	-
TOTAL for ALL (7) PAR	r niimreds.	7				==					1		6
		,	-	-	-	-	-	-	-	-	1	-	U
END OF SIGNIFICANT OCC	UKKENCE KEPUKI INDEX												



## DOMESTIC SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2823	477RM	AMTR				SELECTOR VALVE	MISMANUFACTURI	ED12	11/12/97
	LIV060	LANCAIR				FU560	FUEL SELECTOR		97ZZZX4843
****	CONFIGURATION A 'OFF/BOTH/LEF' WAS EMPTY AND	. THE VALVE WAS MO T/RIGHT' MODE OF OPE	DIFIED BY A 'NON-M RATION. THE KIT M WAS BEING USED, TH	ANUFACTURER SOU ANUFACTURER DOE HE SUBJECT VALVE	RCE'. THE CONFIGUES NOT RECOMMEN	D BY THE KIT MANUFACT URATION OF THE VALVE V D A 'BOTH' POSITION FOR R FROM THE EMPTY TANK	WAS CHANGED FROM A THESE AIRCRAFT. TES	AN 'OFF/LEF STS SHOWE	T/RIGHT' OPERATION TO D WHEN ONE FUEL TANK
5312	734UC	CESSNA				BULKHEAD	CRACKED	8613	11/10/97
DVPR	17269116	172N				051300634	LT FWD DOOR POS	T	97ZZZX4845
		EALED A CRACK APPR ACHMENT. CRACK PR			E LT AFT SECTION (	OF THE FORWARD DOOR I	POST. CRACK STARTS	ON THE REA	AR HOLE OF THE LOWER
5312	734UC	CESSNA				BULKHEAD	CRACKED	8613	11/10/97
DVPR	17269116	172N				05132823	LT FWD DOOR POS	T	97ZZZX4844
		EALED A CRACK APPR ACHMENT. CRACK PR			E LT AFT SECTION (	OF THE FORWARD DOOR I	POST. CRACK STARTS	ON THE REA	AR HOLE OF THE LOWER
2913	3670Y	CESSNA				LEE PLUG	MISSING	3839	10/23/97
NA3R	21058170	210C					HYD PWR PACK	13	97ZZZX4838
	OUT THE BACK.	THE AIRCRAFT LANDE	D GEAR UP. SENT H	YDRAULIC POWER P.	ACK TO THE COMPA	HYDRAULIC POWER PAC ANY THAT OVERHAULED PERSIZED AND WILL NOT	UNIT IN 1994. THIS CO	MPANY'S EV	ALUATION OF THE
2750	16JP	PIPER				BRACKET	CRACKED	5000	10/16/97
	2825956	PA28140				6273800	FLAP CONTROL		97ZZZX4841
	CRACKS AT CORN	NER RADIUS OF ATTAC	H FLANGE ON FLAP	HANDLE SUPPORT B	RACKET.				
7160	9258N	PIPER				AIRBOX	CRACKED	317	10/27/97
SL5R	2843014	PA28181				8547402	INDUCTION AIR		97ZZZX4847
	ATTACHMENT AD ATTACHMENT AT FROM THE CARBU	DAPTER. SUSPECT CAU COWL WAS PLACED A	SE OF CRACKS IS EX AT A BETTER ANGLE JPPORT CLAMP FOR	CESSIVE SIDE LOAD , THE SIDE LOAD WO	DING OF DUCT THAT DULD BE REDUCED.	ETOR INLET VALVE PORT I ATTACHES AIRBOX TO T IN ORDER TO DRAIN THE BLE CHAFES ONE OF THE	THE AIR INLET ON LEFT E CARBURETOR BOWL,	SIDE OF CO THE AIRBO	OWLING. IF DUCT X MUST BE REMOVED

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6320		AEROSP				SHAFT	CORRODED		11/10/97
HEEA		AS355F1				355A32209620	XMSN		HEEA0011865
	CORROSION ON C	OUTBOARD FACE. DEN	TS ON ROLLER BEA	RING RACE ON SHAF	T.				
5302	9151A	AEROSP				BOOM ASSY	BENT	767	11/13/97
HEEA	238540	SA315B				315A221110001	TAIL BOOM		HEEA0011986
	TAIL BOOM BENT	TUBES.							
5510	9151A	AEROSP				STABILIZER	CRACKED	192	11/13/97
HEEA	238540	SA315B				315A3510000251	HORIZ STAB		HEEA0011987
	STABILIZER CRAC	CKED AT FLANGE.							
2312	6748D	BELL				CONTROL	DEFECTIVE		11/12/97
HEEA	51106	206L3			KFS594	071012740004	COCKPIT		HEEA0011968
	KFS594 CONTROL	HAS NO DISPLAY.							
2432	6610Y	BELL				BATTERY	FAILED		11/12/97
HEEA	51419	206L3				3055401C	DC SYS		HEEA0011964
	BATTERY HOT CA	AUTION LIGHT ILLUMI	NATED ON FIRST DA	Y OF OPERATION AF	TER BATTERY INST	ΓALLATION. REPLACED W	VITH SERVICEABLE B	ATTERY.	
2436	27702	BELL				REGULATOR	FAILED		11/10/97
HEEA	45300	206L1				163404751	DC SYS		HEEA0011880
	VOLTAGE WILL N	NOT STAY SET.							
2436	54641	BELL				REGULATOR	FAILED		11/19/97
HEEA	51184	206L3				206075447007	DC GEN SYS		HEEA0012048
	GENERATOR DRO	OPS OFF LINE.							
2436	54641	BELL				REGULATOR	FAILED		11/12/97
HEEA	51184	206L3				206075447007	DC SYS		HEEA0011940
	GENERATOR WO	ULD NOT COME ON LIN	NE.						
2436	6610Y	BELL				REGULATOR	FAILED		11/12/97
HEEA	51419	206L3				206075447007	DC SYS		HEEA0011941
	GENERATOR WO	ULD NOT COME ON LIN	NE.						
2436	3108E	BELL				REGULATOR	FAILED		11/10/97
HEEA	51498	206L3				206075447007	DC SYS		HEEA0011878
	GENERATOR FAL	LS OFF LINE AFTER 20	MINUTES.						
2436	4282Z	BELL				REGULATOR	FAILED		11/19/97
HEEA	51499	206L3				206075447007	DC GEN SYS		HEEA0012049
	GENERATOR WIL	L NOT COME ON LINE.							
2841	5005B	BELL				INDICATOR	DEFECTIVE		11/10/97
HEEA	45175	206L1				206063633001	FUEL QTY		HEEA0011879
	CANNOT CALIBR	ATE FUEL OTY INDICA	TOR. SHOWS 25 LBS	WITH NO FUEL. GL.	ASS CRACKED.		-		

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2842	3116L	BELL				TRANSMITTER	FAILED		11/19/97
HEEA	51529	206L3				206364601101	FUEL QTY		HEEA0012050
	FUEL QTY DROPS	250 TO 300 POUNDS IN	TERMITTENTLY.						
2913	5006F	BELL				PUMP	WORN		11/18/97
HEEA	45181	206L1				206076030101	HYD SYS		HEEA0012031
	WORN PUMP DRIV	VE SHAFT SPLINE.							
2913	1081T	BELL				PUMP	WORN		11/12/97
HEEA	45411	206L1				206076030101	HYD SYS		HEEA0011976
	PUMP SHAFT SPL	INES WORN.							
3213	205FC	BELL				SKID TUBE	CORRODED		11/12/97
HEEA	51130	206L3				206324003	LT SKID		HEEA0011961
	SKID TUBE CORR	ODED DEPTH BEYOND	LIMITS. SCRAPPED	AND REPLACED WIT	H SERVICEABLE SI	KID TUBE.			
3213	205FC	BELL				SKID TUBE	CRACKED		11/12/97
HEEA	51130	206L3				206324004	RT SKID		HEEA0011960
		ACKED BELOW AFT CH	ROSSTUBE SUPPORT	SCRAPPED AND REI	PLACED WITH SER				
3340	5006F	BELL			WHELEN	POWER SUPPLY	FAILED		11/13/97
HEEA	45181	206L1				A490A	STROBE LIGHT		HEEA0012017
	POWER SUPPLY N	IO POWER.							
3340	2246Q	BELL			WHELEN	POWER SUPPLY	FAILED		11/13/97
HEEA	45752	206L1				A490A	STROBE LIGHT		HEEA0012016
	POWER SUPPLY D	OOES NOT WORK. CAU	SES SHORT IN WIRE.						
3416	2268G	BELL			ACK	ENCODER	FAILED		11/13/97
HEEA	3603	206B3				A30	COCKPIT		HEEA0012019
	ENCODER NO ALT	ΓΙΤUDE OUTPUT. CALI	IBRATE TO 28 VDC.						
3416	27702	BELL			ACK	ENCODER	FAILED		11/10/97
HEEA	45300	206L1				A30	COCKPIT		HEEA0011888
	ENCODER HAS NO	O VALID OUTPUT.							
3416	1078D	BELL			ACK	ENCODER	FAILED		11/10/97
HEEA	45397	206L1				A30	COCKPIT		HEEA0011887
	ENCODER HAS NO	O VALID OUTPUT.							
3416	5745N	BELL				ALTIMETER	DEFECTIVE		11/13/97
HEEA	45489	206L1				59323Н5	COCKPIT		HEEA0012007
	ALTIMETER EXC	ESSIVE FRICTION ERRO	OR.						
3416	41791	BELL			ACK	ENCODER	FAILED		11/13/97
	51465	206L3				A30	COCKPIT		HEEA0012018
HEEA	31403								

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3421	107PH	BELL				INDICATOR	FAILED		11/12/97
HEEA	2789	206B3				5040017901	COCKPIT ATTITUI	ÞΕ	HEEA0011962
	UPON INSTALLAT	TION, ATTITUDE INDICA	ATOR CAUSED CIRC	UIT BREAKER TO PO	P. REPLACED WITH	SERVICEABLE PART.			
3423	107PH	BELL				COMPASS	FAILED		11/19/97
HEEA	2789	206B3				C2300L424	COCKPIT		HEEA0012042
	COMPASS WILL N	OT ADJUST.							
3425	2163Y	BELL				TRANSMITTER	FAILED		11/12/97
HEEA	3496	206B3			KFM112	071105200	COCKPIT		HEEA0011939
	COULD NOT CALI	BRATE FLUX VALVE, (	OFF 20DEG.						
3425	5744Y	BELL				HSI CONTROL	INOPERATIVE		11/12/97
HEEA	45465	206L1				066304605	COCKPIT		HEEA0011938
	HSI INDICATOR L	IGHTS INOPERATIVE.							
3452	103PH	BELL				TRANSPONDER	DEFECTIVE		11/10/97
HEEA	3000	206B3			KT76	066106200	COCKPIT		HEEA0011862
						. P/N 134-05005-0002. REPL 0265-00. REPAIRED.BENCI		037-00025-00	000, REPAIRED. ALSO
3452	1078G	BELL				TRANSPONDER	DEFECTIVE		11/10/97
HEEA	45398	206L1			KT76	066106200	COCKPIT		HEEA0011857
	KNOB BROKE OF	FACE. REPLACED KNO	OB. ALSO REPLACE	D WEAK V101 CAVITY	Y OSCILLATOR. REF	PAIRED UNIT. ADJUSTED	PULSE AND FREQUEN	CY. BENCH (	CHECK GOOD.
3452	41791	BELL				TRANSCEIVER	FAILED		11/10/97
HEEA	51465	206L3			KT76	066106200	COCKPIT		HEEA0011869
						ADJUSTED V101 CAVITY T LSE WIDTH AND FREQUE			AVITY TUBE P/N C2080A,
3457	1081T	BELL				ANTENNA	FAILED		11/10/97
HEEA	45411	206L1				1624820	COCKPIT GPS		HEEA0011868
	ANTENNA WON'T	ACQUIRE STATIONS.							
5320	6251V	BELL				SHELL ASSY	DEFECTIVE		11/12/97
HEEA	51404	206L3				206033201267	ROOF PANEL		HEEA0011963
	SHELL ASSY RIVE	ETS WORKING L/H AND	R/H SIDE AT AFT E	ND OF ROOF PANEL U	NDER TRANSMISSI	ON SUPPORTS. INSTALLE	D RIVETS USING 890 A	DHESIVE CR	3242-5.
6240	8587X	BELL				TACH GEN	MALFUNCTION		11/18/97
HEEA	51464	206L3				206076373001	M/R		HEEA0012036
	TACH GENERATO	R SUSPECT CAUSING I	OW RPM HORN WH	EN TESTING HYDRAU	JLICS.				
6240	3116L	BELL				INDICATOR	FAILED		11/13/97
		206L3				206075681117	ROTOR		HEEA0011989
HEEA	51529	20023							
HEEA		IO COMES ON INTERM	ITTENTLY.						
HEEA 6320			ITTENTLY.			PUMP	LEAKING		11/19/97
	LOW ROTOR AUD	IO COMES ON INTERM	ITTENTLY.			PUMP 206040190005	LEAKING TRANSMISSION		11/19/97 HEEA0012061

ENG MAKE

PROP MAKE

ACFT MAKE

ATA

REG. NO

OPER	SERIAL NO	ACFT MAKE	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
6330	141BH	BELL				RESTRAINT	WORN		11/13/97
HEEA	51303	206L3				206033506103	M/R XMSN		HEEA0012009
	TRANSMISSION R	ESTRAINT WORN BEAI	RINGS.						
5330	8588X	BELL				RESTRAINT	WORN		11/13/97
HEEA	51486	206L3				206033506101	TRANSMISSION		HEEA0012014
	TRANSMISSION R	ESTRAINT BEARING W	ORN.						
6710	8589X	BELL				ACTUATOR	FAILED	6306	11/18/97
HEEA	51487	206L3				206062721109	M/R		HEEA0012037
	24 VDC ON EXTEN	ID TERMINAL AND 24 V	VDC ON RETRACT T	ERMINAL.					
6710	3116L	BELL				ACTUATOR	INOPERATIVE		11/18/97
HEEA	51529	206L3				206062721109	M/R		HEEA0012034
	ACTUATOR INOPE	ERATIVE.							
7320	2268V	BELL	ALLSN			LINEAR ACTUATOR	FAILED		11/19/97
HEEA	3605	206B3	250C20			SYLC95481	ENGINE		HEEA0012043
	LINEAR INDICATO	OR INOPERATIVE.							
7330	3116L	BELL				INDICATOR	FAILED		11/13/97
HEEA	51529	206L3				206075676111	FUEL PRESS		HEEA0011991
	FUEL PRESS LOAD	METER INDICATES N	O HIGHER THAN 5 P	SI.					
7712	8589X	BELL				TORQUE INDICATOR	MIS MARKED	1237	11/12/97
HEEA	51487	206L3				206075739105	COCKPIT		HEEA0011945
	INDICATOR HAS V	VRONG RANGE MARKI	INGS FOR RED LINE.						
7714	1078C	BELL				RPM INDICATOR	STICKS		11/18/97
HEEA	45392	206L1				8DJ81WBS4	GAS PRODUCER		HEEA0012020
	GAS PRODUCER II	NDICATOR NEEDLE HA	AS STICKY OPERATION	ON THROUGHOUT SO	CALE.				
7714	54641	BELL				TACH GEN	FLUCTUATING		11/18/97
HEEA	51184	206L3				206062627003	ENGINE		HEEA0012035
	TACH GENERATO	R FLUCTUATING INDIC	CATION.						
7722	6251V	BELL				TOT INDICATOR	STICKS		11/13/97
HEEA	51404	206L3				206375007103	COCKPIT		HEEA0012010
	TOT INDICATOR S	TICKS.							
7722	7074W	BELL				TOT INDICATOR	STICKS		11/12/97
HEEA	52033	206L4				206375007103	COCKPIT		HEEA0011974
	TOT INDICATOR N	EEDLE STICKS.							
2370	27805	BELL				CVR	FAILED	2436	11/13/97
HEEA	31106	212				9806019001	COCKPIT		HEEA0011982
		ST. ALSO REMOVED F	PINGER P/N DK100 S	VN DD12472 WITH CV	D DEDI ACEMENTE				

COMP MFG

PART NAME

OOMEST	IC SERVICE DIFF	FICULTY REPORT	SUMMARY - HE	LICOPTERS (cont'	<u>d)</u>		<u>11/23/97 T</u>	o 11/29/97	ISSUE: 97-48 ZAC-3
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2370	5736J	BELL				CVR	FAILED	3430	11/13/97
HEEA	31140	212				9806019001	COCKPIT		HEEA0011983
	CVR WILL NOT TE	EST. ALSO REMOVED I	PINGER P/N DK100, S	N DL8982 WITH CVR	. REPLACEMENT P	INGER S/N S9081 RECEIVED	WITH CVR.		
2822	27805	BELL				PUMP	SHORTED		11/12/97
HEEA	31106	212				205060606003	FUEL BOOST		HEEA0011946
	PUMP SHORTED II	NTERNALLY. POPS BR	EAKERS.						
3442	102PH	BELL				INDICATOR	DEFECTIVE		11/10/97
HEEA	30899	212			P4001	MI5852013	COCKPIT		HEEA0011870
	THE CONTRAST IS	S NOT BRIGHT ENOUG	H TO READ THE SCR	EEN. THERE IS ONLY	ONE COLOR. INST	ALLED SERVICEABLE PART	Γ.		
7250	27805	BELL	PWA			POWER SECTION	CRACKED	13831	11/13/97
HEEA	31106	212	PT6T3B			3017600	ENGINE		HEEA0012003
	3 INCH CRACK ON	TOP OF GAS GENERA	TOR CASE JUST AFT	OF CUSTOMER AIR I	PORT.				
7722	27805	BELL				ITT INDICATOR	STICKS		11/12/97
HEEA	31106	212				212075067105	COCKPIT		HEEA0011975
	ITT INDICATOR W	ILL STICK ON 300 ON	START SOMETIMES.						
7722	5736D	BELL				TRIM COMPENSATOR	FAILED		11/19/97
HEEA	31135	212				3030083	ENGINE		HEEA0012054
	TRIM COMPENSA	TOR HAVE INCORRECT	Γ READINGS. SENT T	O MASCO FOR INSPE	CTION AND REPAIR	<b>R</b> .			
2430	8045T	BELL				RELAY	FAILED		11/13/97
HEEA	28101	214ST				214175133103	DC SYS		HEEA0012004
	FORWARD START	ARM RELAYS WOULD	NOT ENERGIZE.						
2432	8045T	BELL				CHARGER	FAILED		11/12/97
HEEA	28101	214ST				214175379103	BATTERY		HEEA0011937
	CHARGER WILL N	OT CHARGE BATTERY	PROPERLY.						
2730	6957Y	BELL				ACTUATOR ASSY	DEFECTIVE		11/18/97
HEEA	28139	214ST				214001970107	ELEVATOR		HEEA0012033
	ACTUATOR WILL	NOT STAY ON LINE.							
2913	6957Y	BELL				PUMP	INOPERATIVE		11/18/97
HEEA	28139	214ST				214076033001	HYD SYS		HEEA0012030
	HYD PUMP INOPE	RATIVE.							
3150	6957Y	BELL				PANEL ASSY	DEFECTIVE		11/18/97
HEEA	28139	214ST				214175145103	MASTER CAUTIO	N	HEEA0012024
	MASTER CAUTION	N LIGHT ASSEMBLY ST	TICKS.						
7100	8045T	BELL				PRESSURE SWITCH	FAILED		11/13/97
-									

4068T96P01

**ENGINE** 

SWITCH INOPERATIVE.

214ST

28101

HEEA

HEEA0011980

DOMEST	IC SERVICE DIFF	FICULTY REPORT	SUMMARY - HE	LICOPTERS (cont	<u>'d)</u>		11/23/97 To	11/29/97	ISSUE: 97-48 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7100	3897N	BELL				PRESSURE SWITCH	FAILED		11/13/97
HEEA	28106	214ST				4068T96P01	ENGINE		HEEA0011981
	PRESSURE SWITC	H WILL NOT TURN LIG	HT ON WHEN SYSTI	EM IS OFF.					
6320	230UN	BELL				SEAL	LEAKING		11/12/97
HEEA	23009	230			222040003119	1223328	M/R GR BOX		HEEA0011979
	SEAL LEAKING.								
2120	21498	BELL				CONTROLLER	INOPERATIVE		11/18/97
HEEA	36003	412				212073927003	AIR DIST		HEEA0012025
	SERVO CONTROL	LER INOPERATIVE.							
2160	21498	BELL				TEMP CONTROL	FAILED		11/12/97
HEEA	36003	412				212073927001	CABIN TEMP		HEEA0011936
	TEMP CONTROL N	MOTOR RUNNING BUT	DRIVE SHAFT NOT	ΓURNING.					
2312	2258F	BELL				TRANSCEIVER	FAILED		11/12/97
HEEA	33073	412			KTR905	064100900	COCKPIT VHF		HEEA0011969
	TRANSCEIVER WE	EAK AND UNREADABL	E, NO TRANSMIT.						
2370	107X	BELL				CVR	FAILED	22	11/12/97
HEEA	33113	412				9806020023	COCKPIT		HEEA0011978
	CVR TEST LIGHT	ON CONSTANTLY.							
2422	1202T	BELL				INVERTER	INOPERATIVE		11/19/97
HEEA	33112	412				412075101101	SWITCH		HEEA0012057
	INVERTER ON/OF	F SWITCH INOPERATIV	E. TIME SINCE REP	PAIR 0:00.					
2823	108X	BELL				VALVE	DEFECTIVE		11/18/97
HEEA	33115	412				233575	FUEL SYS		HEEA0012041
	VALVE HARD TO	OPEN OR CLOSE.							
2823	7128R	BELL				VALVE	FAILED		11/10/97
HEEA	36007	412				L88010501	FUEL SOV		HEEA0011884
	FUEL SOV INOPER	RATIVE.							
2840	141PH	BELL				SIGNAL COND	FAILED		11/12/97
HEEA	33197	412				473203003	FUEL INDICATING		HEEA0011935
	L/H SIDE FULL GA	UGE READS ZERO.							
3213	3893N	BELL				CAP ASSY AFT	DETERIORATED		11/12/97
HEEA	33010	412				412030437103	AFT CROSSTUBE		HEEA0011952
	AFT CAP ASSY DE	TERIORATED RUBBER							
3340	2149S	BELL			WHELEN	STROBE LIGHT	FAILED		11/10/97

7028521

412

STROBE POWER SUPPLY INOPERATIVE.

36002

HEEA

HEEA0011889

POWER SUPPLY

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3340	2149S	BELL			WHELEN	STROBE LIGHT	FAILED		11/10/97
HEEA	36002	412				7028521	POWER SUPPLY		HEEA0011890
	STROBE INOPERA	TIVE.							
3416	1202T	BELL				ALTIMETER	DEFECTIVE		11/13/97
HEEA	33112	412				6221205004	COCKPIT		HEEA0012006
	ALTIMETER MISS	ING PH LIGHT.							
3416	1202T	BELL				ALTIMETER	DEFECTIVE		11/13/97
HEEA	33112	412				1003511424	COCKPIT		HEEA0012011
	ALTIMETER HAS I	EXCESSIVE FRICTION I	ERROR.						
3416	21498	BELL				ALTIMETER	STICKS		11/18/97
HEEA	36003	412				8503S20LW5V	COCKPIT		HEEA0012028
	ALTIMETER STICI	KS AT 500 FEET THEN J	UMPS 300 FEET. DOI	ES SAME AT 1500 FER	ET.				
3421	1202T	BELL				INDICATOR	PRECESSES		11/19/97
HEEA	33112	412				222375033103	COCKPIT ATTITUDI	3	HEEA0012044
		SSES IN AIRCRAFT.							
3421	108X	BELL				INDICATOR	PRECESSES		11/18/97
HEEA	33115	412				222375033103	COCKPIT ATTITUDI	Ξ	HEEA0012027
	ATTITUDE INDICA	ATOR PRECESSES EXC	ESSIVELY IN ROLL A	XIS.					
3425	142PH	BELL				INDICATOR	FAILED		11/13/97
HEEA	33150	412				1113025	COCKPIT HSI		HEEA0011994
	HSI COURSE SELE COPILOT POSITIO		OOMLY IN FLIGHT. C	HANGES CONSTANT	T WHEN THE COURS	E SELECT SWITCH IN THI	E AIRCRAFT IS SWITCHE	ED BETWEE	N THE PILOT AND
3442	3911L	BELL				INDICATOR	FAILED		11/12/97
HEEA	33023	412			P4001	MI5852013	COCKPIT RADAR		HEEA0011965
		RADAR IMAGE OCCAS NG-UP PERIOD. REPLA			VHEN UNIT WAS TU	RNED ON FOR TROUBLES	HOOTING, SCREEN WO	JLD NOT C	OME ON (STAYED BLANK
3452	22347	BELL				CONTROL	DEFECTIVE		11/10/97
HEEA	36005	412				071119218	TRANSPONDER		HEEA0011928
	XPONDER CONTR	OL LIGHTS DIM FOR D	AY USE. PERFORME	D PRELIMINARY INS	PECTION. FOUND D	DISPLAY DIM. REPLACED	V101 PHOTOCELL. REPA	AIRED. BEN	NCH CHECK GOOD.
3455	3893N	BELL				RECEIVER	FAILED		11/12/97
HEEA	33010	412				066104701	ADF		HEEA0011970
	ADF WILL NOT RE	ECEIVE FOR VERY LON	G.						
5260	293CA	BELL				ACTUATOR	BINDING		11/12/97
HEEA		412				212075418103	STEP		HEEA0011949
	STEP ACTUATOR	BINDS UP AND POPS C	IRCUIT BREAKER.						
5260	108X	BELL				ACTUATOR	INOPERATIVE		11/12/97
HEEA	33115	412				SYLC502283	STEP		HEEA0011950
	STEP ACTUATOR	INOPERATIVE.							

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5240	2298Z	BELL				INDICATOR	FAILED		11/13/97
HEEA	33077	412				412075010111	TRIPLE TACH		HEEA0011993
	ROTOR NEEDLE R	READS HIGH.							
6320	HL923	BELL				CASE ASSY	CORRODED		11/12/97
HEEA	33150	412				204040386001	XMSN		HEEA0011951
	XMSN CASE ASSY	CORROSION ON TOP	FLANGE AND PILOT	DIAMETER WORN.					
6410	21498	BELL				BLADE	DEFECTIVE	2214	11/12/97
HEEA	36003	412				212010750105	END CAP SKIN		HEEA0011971
	BLADE SKIN LIFT	ED AT END CAP AND V	OID ON END CAP.						
6710	2014K	BELL				SERVO ASSY	STUCK		11/13/97
HEEA	33020	412				412001304101	M/R		HEEA0011996
	NR2 ACTUATOR S	TUCK HARD OVER.							
6710	2261D	BELL				LINEAR ACTUATOR	WORN		11/18/97
HEEA	33076	412				204060762005	M/R		HEEA0012029
	LINEAR ACTUATO	OR SHAFT WORN.							
6710	1202T	BELL				ACTUATOR ROTARY	DEFECTIVE		11/12/97
HEEA	33112	412				214001347005	M/R		HEEA0011934
	ROTARY ACTUAT	OR BRAKE WILL NOT	RELEASE PROPERLY						
6710	2149S	BELL				ACTUATOR	INOPERATIVE		11/12/97
HEEA	36002	412				206062721109	M/R		HEEA0011947
	ACTUATOR INOPE	ERATIVE.							
7160	2261D	BELL				ACTUATOR	CORRODED		11/12/97
HEEA	33076	412				209062214001	ENG INLET		HEEA0011948
	ACTUATOR CANN	NON PLUG CORRODED.	WIRE TOO SHORT T	O REPLACE CANNO	N PLUG.				
7210	5759N	BELL				POWER SEC	FAILED	9333	11/10/97
HEEA	33002	412				3017600	ENGINE		HEEA0011876
	OIL PUMP BOLT T	HREADS STRIPPED OU	T OF GEARBOX AND	EXCESSIVE CHAFIN	G ON GEARBOX.				
7210	3893P	BELL	PWA			COMBINING GR BOX	FAILED	15964	11/13/97
HEEA	33012	412	PT6T3B			3024780	ENGINE		HEEA0011984
	NOISE IN NR1 SID	E OF GEARBOX.							
7210	6559Z	BELL	PWA			COMBINING GR BOX	MAKING METAL	14154	11/13/97
HEEA	36019	412	PT6T3B			3024780	ENGINE		HEEA0012002
	COMBINING GR B	OX HAS METAL ON PL	UGS AND FILTER AF	TER 30 MINUTES RU	N AND 20 MINUTES	FLIGHT.			
7261	3911L	BELL	ALLSN			HOUSING ASSY	MISMANUFACTUR	EE80	11/12/97
HEEA	33023	412	250C47B			3026669	ENG OIL		HEEA0011977
						AND LOW AT 100%. REMOV 77 AND SO#S:600971 AND 0			

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7712	108X	BELL				INDICATOR	STICKS		11/18/97
HEEA	33115	412				412075008111	ENG TORQ		HEEA0012040
	TORQUE INDICAT	OR NR2 NEEDLE STICK	S AFTER ONE HOU	R USE. TIME SINCE F	REPAIR 217:05.				
7712	7128R	BELL				TRANSMITTER	FAILED		11/13/97
HEEA	36007	412				412075205101	ENG TORQUE		HEEA0012001
	TORQUE TRANSM	ITTER STICKING. TRA	NSMITS LOW OUT (	OF TOLERANCE.					
7714	2149S	BELL				INDICATOR	STICKS		11/13/97
HEEA	36002	412				212075037101	ENG N1		HEEA0012000
	N1 INDICATOR NE	EEDLE STICKS THROUG	SHOUT SCALE, NO L	IGHTING.					
7722	107X	BELL				ITT INDICATOR	FAILED		11/13/97
HEEA	33113	412				212075067105	COCKPIT		HEEA0011998
	ITT INDICATOR N	EEDLE DROPPED TO ZI	ERO.						
7722	22347	BELL				ITT INDICATOR	STUCK		11/13/97
HEEA	36005	412				212075067105	COCKPIT		HEEA0011997
	ITT INDICATOR N	EEDLE STICKS ON STA	RT.						
7810	22608	BELL				DUCT ASSY	CRACKED		11/13/97
HEEA	33075	412				212061202010	RT EXH		HEEA0012012
	EJECTORS ARE CF	RACKED.							
7810	22608	BELL				DUCT ASSY	CRTACKED		11/13/97
HEEA	33075	412				212061202009	LT EXH		HEEA0012013
	EJECTORS ARE CF	RACKED.							
7810	21498	BELL				EJECTOR ASSY	BROKEN		11/13/97
HEEA	36003	412				212061201012	RT MOUNT		HEEA0012015
	EJECTOR ASSY M	OUNT BRACKETS BROI	KEN.						
7931	108X	BELL				INDICATOR	FAILED		11/13/97
HEEA	33115	412				209070262101	ENG OIL PRESS		HEEA0011990
	ENG OIL TEMP/PR	ESS READS LOW OIL PI	RESSURE.						
7320	P2CHD	BOEING	GE			ACTUATOR	MALFUNCTIONED	1324	10/7/97
CHIR	2003	1072	CT581401			ACL102	NR 1 ENGINE		97ZZZX4865
	RAPID CLTV INPU REPLACED THE A	TS. EVEN THE EMERG CTUATOR. RESUMED	ENCY SYSTEM FAIL OPERATIONS. TROU	ED TO BREAK IT FRE JBLESHOOTING FOU	EE. TAPPING THE UI ND THE ACTUATOR	WOULD APPEAR TO WORK NIT WITH A SCREW DRIVE WAS 'SLOW' AND NOTICI RK ALSO. THEN IT TOO W	ER 'BROKE' THE SYSTEM EABLY QUIETER THAN '	I FREE ALLO THE NORMA	OWING 'NORMAL'OPS. ALLY OPERATING NR 2
2312	911PF	BOLKMS				TRANSCEIVER	INTERMITTENT		11/10/97
HEEA	S718	BO105S			RT40	40001278500	COCKPIT VHF		HEEA0011864
	RT40 TRANSCEIV	ER VERY INTERMITTE	NT RECEIVE.						
2562	911FL	BOLKMS			NARCO	ELT	WEAK		11/12/97
HEEA	S717	BO105S				ELT1104	COCKPIT		HEEA0011944
	ELT HAS WEAK SI	GNAL.							

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2844		BOLKMS				INDICATOR	STICKS		11/12/97
HEEA		BO105S				4021001	DUAL FUEL PRESS		HEEA0011933
	DUAL FUEL PRESS	SURE NR2 NEEDLE STIC	CKS INTERMITTENTI	Y.					
2844		BOLKMS				INDICATOR	STICKS		11/12/97
HEEA		BO105S				4021001	DUAL FUEL PRESS		HEEA0011932
	DUAL FUEL PRESS	SURE NR2 NEEDLE STIC	CKS AT ZERO INTERN	MITTENTLY.					
2844	91070	BOLKMS				TRANSDUCER	FAILED		11/12/97
HEEA	S145	BO105S				BSE206150G3	FUEL PRESS		HEEA0011956
	TRANSDUCER NO	PRESSURE INDICATIO	N. CAUSES THE GAU	GE TO PEG TO ZERO	SIDE ALL THREE I	PRESSURE BOTH ENGINES	AND TRANS. INDICATO	R ON SAME	E GAUGE.
2844	91070	BOLKMS				TRANSDUCER	FAILED		11/12/97
HEEA	S145	BO105S				BSE206150G3	FUEL PRESS		HEEA0011955
	TRANSDUCER HAS	S NO PRESSURE INDICA	ATION.						
2844	4573B	BOLKMS				TRANSDUCER	DEFECTIVE		11/10/97
HEEA	S673	BO105S				BSE20660G1	FUEL PRESS		HEEA0011882
	FUEL PRESSURE II	NDICATES LOW OUT O	F TOLERANCE.						
2844	4573B	BOLKMS				TRANSDUCER	FAILED		11/10/97
HEEA	S673	BO105S				BSE206150G3	FUEL PRESS		HEEA0011883
	INDICATES LOW O	OUT OF TOLERANCE.							
3416	50293	BOLKMS			ACK	ENCODER	FAILED		11/10/97
HEEA	S677	BO105S				A30	COCKPIT		HEEA0011886
	ALTITUDE ENCOD	ER NO VALID OUTPUT							
3421	81992	BOLKMS				INDICATOR	INOPERATIVE		11/12/97
HEEA	S827	BO105S				5040017901	COCKPIT ATTITUDI	3	HEEA0011959
	ATTITUDE INDICA	TOR INOPERATIVE.							
3457	135AE	BOLKMS			GARMIN INT	GPS 150	FAILED		11/12/97
HEEA	S838	BO105S				0110005400	COCKPIT		HEEA0011972
	GPS INTERNAL BA	ATTERY DEAD.							
5320	624MB	BOLKMS				FLOOR PLATE	CORRODED		11/10/97
HEEA	S751	BO105S				10522341	FUSELAGE		HEEA0011875
	FLOOR PLATE COI	RRODED AND SEPARA	TED BEYOND REPAII	₹.					
6230	205UC	BOLKMS				MAST	CRACKED	3885	11/12/97
HEEA	S668	BO105S			4638001004	4638205005	ROTOR		HEEA0011966
	MAST FOUND TO I	BE CRACKED AT WEBE	BING BETWEEN BOLT	Γ HOLES. REPLACED	WITH SERVICEABI	LE MAST.			
6240	9190Y	BOLKMS				INDICATOR	FAILED		11/19/97
HEEA	S669	BO105S				10594564	MAST MOMENT		HEEA0012046
	MAST MOMENT IN	DICATOR BLOWS FUS	ES.						

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ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6410	5031U	BOLKMS				BLADE	DEFECTIVE	1178	11/13/97
HEEA	S678	BO105S				10531791	T/R		HEEA0012008
	T/R BLADE S/N 15	1 HAS RUBBER COATIN	NG PEELING AT BLA	DE TIP AND S/N 165 S	ENT FOR BALANCI	NG PURPOSES.			
6520	818SH	BOLKMS				CHIP DETECTOR	SHORTED		11/12/97
HEEA	S753	BO105S				B4717	T/R GR BOX		HEEA0011958
	CHIP DETECTOR S	SHORTED LIGHT COME	ES ON WHEN INSTAL	LED.					
6520	81832	BOLKMS				GEAR BOX	FAILED	4974	11/13/97
HEEA	S828	BO105S				4619002003	T/R INTERMED		HEEA0011985
	INTERMEDIATE G	R BOX MAKING META	L.						
7310	3533T	BOLKMS	ALLSN			CONNECTING PIECE	LEAKING		10/22/97
HEEA	S111	BO105S	250C20B			10561320	FUEL SYS		HEEA0011718
	LEAKING FROM S	WEDGED RING AT "B"	NUT.						
7712	9190Y	BOLKMS				TRANSMITTER	FAILED		11/19/97
HEEA	S669	BO105S				10594575	ENGINE		HEEA0012045
	TORQUE TRANSM	IITTER BLOWS FUSES.							
7714	5031U	BOLKMS				TACH INDICATOR	ERRATIC		11/12/97
HEEA	S678	BO105S				DL41239	COCKPIT		HEEA0011943
	INDICATOR ERRA	TIC OPERATION AT LC	OW RPMS.						
7714	911HM	BOLKMS				TACH INDICATOR	FAILED		11/19/97
HEEA	S683	BO105S				DL40438	COCKPIT		HEEA0012047
	TRIPLE TACH IND	ICATOR ALL NEEDLES	STICKING DURING	OPERATION.					
7722	624MB	BOLKMS				TOT INDICATOR	FAILED		11/12/97
HEEA	S751	BO105S				50061051	COCKPIT		HEEA0011942
	EXCESSIVE FRICT	TION ERROR. SENT TO I	MASCO FOR INSPEC	TION AND REPAIR.					
7722	4302G	BOLKMS				TOT INDICATOR	ERROR		11/10/97
HEEA	S853	BO105S				10590947	COCKPIT		HEEA0011877
	TOT INDICATOR N	NEEDLE HAS EXCESSIV	E FRICITON ERROR						
7930	4573L	BOLKMS				OIL INDICATOR	FLUCTUATES		11/10/97
HEEA	S683	BO105C				4011001	COCKPIT		HEEA0011871
	NR2 NEEDLE FLU	CTUATES AND INTERM	MITTENTLY STICKS.						
7930		BOLKMS				OIL INDICATOR	STICKS		11/10/97
HEEA		BO105S				4011001	COCKPIT		HEEA0011873
	NR2 NEEDLE STIC	CKS.							
7930		BOLKMS				OIL INDICATOR	DEFECTIVE		11/12/97
HEEA		BO105S				4011001	COCKPIT		HEEA0011931

TRIPLE OIL INDICATOR NR1 NEEDLE READS LOW.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7930		BOLKMS				OIL INDICATOR	DEFECTIVE		11/12/97
HEEA		BO105S				4011001	COCKPIT		HEEA0011930
	OIL INDICATOR C	RACKED LENS.							
7930		BOLKMS				OIL INDICATOR	DEFECTIVE		11/12/97
HEEA		BO105S				4011001	COCKPIT		HEEA0011929
	TRIPLE OIL INDIC	ATOR NEEDLE NR1 AN	ND NR2 INDICATES L	OW OUT OF TOLERA	NCE.				
7930		BOLKMS				OIL INDICATOR	STICKS		11/10/97
HEEA		BO105S				4011001	COCKPIT		HEEA0011874
	TRIPLE OIL INDIC	ATOR NR1 NEEDLE ST	TICKS.						
7930	6607K	BOLKMS				OIL INDICATOR	STICKS		11/10/97
HEEA	S841	BO105S				4011001	COCKPIT		HEEA0011872
	TRIPLE OIL INDIC	ATOR NR1 NEEDLE ST	TICKS AT HIGH END.						
2210	134AE	BOLKMS				CONTROL UNIT	FAILED		11/13/97
HEEA	7237	BK117B2				117884141	COCKPIT		HEEA0011995
	CONTROL UNIT D	ROPPED OFF LINE SEV	ERAL TIMES, WOUL	O NOT COME ON ON	E TIME.				
2312	401PH	BOLKMS				TRANSCEIVER	FAILED		11/10/97
HEEA	7050	BK117A3				4000102002	COCKPIT		HEEA0011863
	RT138 PIN ON FRO	ONT CONNECTOR BROD	KEN. POPS CIRCUIT	BREAKER.					
2312	401PH	BOLKMS				TRANSCEIVER	FAILED		11/10/97
HEEA	7050	BK117A3			RT138F	40001452502	COCKPIT		HEEA0011859
	TRANSCEIVER WIGOOD.	ILL NOT TRANSMIT. FO	OUND VR3 VOLTAGE	REGULATOR ON VC	O CONTROL BOARI	D INOPERATIVE. REPLAC	ED VOLTAGE REGULA	TOR. REPAIR	RED UNIT. BENCH CHECK
3452	911LK	BOLKMS				TRANSPONDER	FAILED		11/10/97
HEEA	7068	BK117B2			KT76	066106200	COCKPIT		HEEA0011858
	TRANSPONDER W	ILL NOT IDENT. REPLA	ACED CAVITY OSCIL	LATOR V01. REPAIR	ED. INSTALLED CA	AP PLUGS. ADJUSTED FRE	QUENCY. BENCH CHE	CK GOOD.	
6720	217UC	BOLKMS				ACTUATOR	LEAKING		11/19/97
HEEA	7152	BK117B1				741C000005	TAIL ROTOR		HEEA0012058
	T/R ACTUATOR L	EAKING.							
6730	217UC	BOLKMS				ACTUATOR	FAILED		11/13/97
HEEA	7152	BK117B1				741C000005	T/R		HEEA0011992
	T/R ACTUATOR K	ICKS IN CRUISE (CHAT	TERS).						
5210	831FG	HUGHES				DOOR	DEPARTED		10/3/97
	830511S	369HS				90210001	CABIN RT MAIN		97ZZZX4860
****	STC SH2530 NM. I	DISCOVERED DURING	INSPECTION THAT T	HE LATCHING FEAT	URE USED WAS NO	NGES WERE MODIFIED BY T PROPERLY ENGAGED A FOLLOW. THE STC NEEDS	LLOWING THE DOOR T	O DEPART T	HE HELICOPTER.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6320	161KA	KAMAN			KAMAN	OIL PUMP	SEIZED	1687	11/6/97
HEAA	A940016	K1200			K974002101	K974120107	M/R TRANSMISSIO	N	97ZZZX4858
****						USED DAMAGE TO PUMP D HAVE NEEDED CHARGING			
6320	161KA	KAMAN			KAMAN	OIL PUMP	DAMAGED	1687	11/6/97
HEAA	A940016	K1200				K974120101	M/R		97ZZZX4859
						USED DAMAGE TO PUMP D HAVE NEEDED CHARGINO			
7120		SKRSKY				STABILIZER RING	CRACKED		11/5/97
JYDR		S64A				698609	RING TO FLANGE		97ZZZX4837
	AT ONE OF THE R	ING TO FLANGE TRAN	SITION POINTS. THE	CRACK GOES FROM	ONE SIDE OF THE	S NOT AN ENGINE MOUNT I RING TO THE OTHER, AND HAVE A FINITE LIFE. THE (	EXTENDS APPROXIM	ATELY 0.500	INCH ON EACH SIDE.
2210	1547D	SKRSKY				YAW INDICATOR	MALFUNCTION		11/19/97
HEEA	760077	S76A				7690001804103	ROLL-PITCH		HEEA0012059
	YAW KICKING IN	ROLL AND PITCH AFT	ER ONE HOUR OF FL	IGHT.					
2430	911MJ	SKRSKY				EMERGENCY POWER	FAILED		11/13/97
HEEA	760231	S76A				6013211	DC SYS		HEEA0012005
	EMERGENCY POW	VER BATTERY INTERN	IAL FAILURE.						
2820	31217	SKRSKY				VALVE	DEFECTIVE		11/19/97
HEEA	760229	S76A				6531703006109	FUEL SYS		HEEA0012060
	NR1 ENGINE STAI	LLING.							
2841	31217	SKRSKY				INDICATOR	STICKS		11/18/97
HEEA	760229	S76A				7645001078103	FUEL QTY		HEEA0012021
	FUEL QTY NR2 NE	EEDLE STICKS IN MOV	EMENT.						
3040	4253S	SKRSKY				CONVERTER	BINDING		10/9/97
HEEA	760035	S76A				9001421	WIPER ASSY		HEEA0011397
	WIPER ASSY CON	VERTER BINDING.							
3150	31219	SKRSKY				CAUTION PANEL	MALFUNCTIONED		11/12/97
HEEA	760230	S76A				7655001001103	COCKPIT		HEEA0011953
	MASTER CAUTION	N LIGHT STAYS ON VE	ERY LOW.						
3414	1547D	SKRSKY				INDICATOR	FAILED		11/18/97
HEEA	760077	S76A				2002011293	AIR SPEED		HEEA0012022
	SLOW TO COME U	JP ON SPEED. SENT TO	MASCO FOR INSPEC	TION AND REPAIR.					
3421	1547D	SKRSKY				GYRO	MALFUNCTION		11/18/97
HEEA	760077	S76A				7660002113102	COCKPIT VG		HEEA0012026
	AFTER ONE HOUR	R OF FLIGHT TIME NR1	PITCH KICKS.						

ACFT MAKE

SKRSKY

DAMPENER INNER BUSHING CAVITY OVERSIZED.

SKRSKY

S76A

S76A

ACFT MODEL

**ENG MAKE** 

**ENG MDL** 

ATA

6220

HEEA

6220

HEEA

**OPER** 

REG. NO

5426U

760167

792CH

760193

**SERIAL NO** 

5310	5426U	SKRSKY		OUTPUT FLANGE	SHEARED		11/12/97
HEEA	760167	S76A		7636109103104	ENGINE		HEEA0011954
IILL/I		SHAFT SHEARED AT THREADS. SCRAPPED PA	ART.	7030107103104	LIVGIVE		112210011754
6320		SKRSKY		TUBE	PITTED		11/19/97
HEEA		S76A		7635109150103	GR BOX		HEEA0012055
	GR BOX TUBE	SEAL RIDE PITTED.					
6321	31219	SKRSKY		MODULE	INOPERATIVE		11/18/97
HEEA	760230	S76A		7665009803105	ROTOR BRAKE		HEEA0012032
	ROTOR BRAKI	ELIGHT INOPERATIVE.					
6410	4253S	SKRSKY		BLADE	VOID	5653	11/10/97
HEEA	760035	S76A		7610105101041	T/R		HEEA0011856
	VOID OVER TI	IE T/R BLADE TIP WEIGHT CHAMBER ON PA	DDLE "A".				
7810	3122H	SKRSKY		EJECTOR	CRACKED		11/13/97
HEEA	760233	S76A		7630507003044	EXHAUST		HEEA0011999
	EJECTOR CRA	CKED UPPER AIRCRAFT OUTLET.					
2312	60951	SNIAS		TRANSCEIVER	FAILED		11/10/97
HEEA	2771	AS350B2	KY196	064101902	COCKPIT		HEEA0011860
	VHF TRANSCE BENCH CHECK	IVER WILL NOT TRANSMIT IN FLIGHT. FOUN GOOD.	ND POWER OUT TO BE 3 WATTS BELOW	SPECS. REPLACED CAPACI	TOR C623. REPAIRED	. ADJUSTED S	SQUELCH AND SIDE
5210	6097Z	SNIAS		CYLINDER LOCK	BROKEN	3314	10/14/97
3210	2820	AS350B2			DOOR		HEEA0011470
	2620	ASSSUB2		350A25152000	DOOK		
		OKEN ROD ATTACH POINT.		350A25152000	DOOK		
HEEA				350A25152000 SCREW	BROKEN	793	11/12/97
HEEA 6220	CYL LOCK BR	DKEN ROD ATTACH POINT.				793	11/12/97 HEEA0011967
HEEA 6220	CYL LOCK BR 60951 2771	OKEN ROD ATTACH POINT. SNIAS	T. REPLACED WITH NEW BOLT.	SCREW	BROKEN	793	
HEEA 6220 HEEA	CYL LOCK BR 60951 2771	OKEN ROD ATTACH POINT.  SNIAS AS350B	T. REPLACED WITH NEW BOLT.	SCREW	BROKEN	793	
6220 HEEA 7200 HEEA	CYL LOCK BR 60951 2771 BROKEN IN SM	OKEN ROD ATTACH POINT.  SNIAS AS350B IALLER THREADS AT THE END OF THIS BOL	T. REPLACED WITH NEW BOLT.	SCREW 350A37124420	BROKEN ROTOR HEAD		HEEA0011967

PROP MAKE

PROP MDL

COMP MFG

COMP MDL

PART NAME

DAMPENER

DAMPENER

7610608000050

7610608000049

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7240	400AC	BEECH	GARRTT			PLENUM	FAILED	9187	11/4/97
	BE12	B100	TPE3316				RT ENG	850	97ZZZX4851
****	WAS JAMMED. THE REVEALED THAT INOP. INSP OF TH	HE ENG WAS SHUT DO' THE PLENUM CASE BE E PLENUM CASE SUGO	WN USING THE FIRE ROKE OPEN RADIAL GESTS THAT A CRAC	WALL SOV. FIRE BO LY TOWARD THE TO K BEGAN AT THE PO	TTLE WAS DISCHAI P OF THE ENG. THE INT WHERE THE W	THE RT ENG. UNABLE TO DERGED AND FIRE WAS PUT OF OPENED PART WAS JAMMELDS OF BLEED AIR, AND TOPEN TOTAL IS 24 INCHES.	OUT. THE LEFT ENG S ED BEHIND THE EME	ECURED AN RG CUTOFF	D ACFT EVAC. INSP LEVER RENDERING IT
7314	701NC	ВЕЕСН	PWA			PUMP	FAILED	4878	11/3/97
	LA55	F90	PT6A135			0253231013	LT ENG FUEL	1577	97ZZZX4850
	THIS CONDITION		PUSHING A PIPE CL	EANER INTO PUMP I		INES WORN OUT ON PUMP. ST DEPOSITS INDICATE LA		,	
7320	2268V	BELL	ALLSN			LINEAR ACTUATOR	FAILED		11/19/97
HEEA	3605	206B3	250C20			SYLC95481	ENGINE		HEEA0012043
	LINEAR INDICATO	OR INOPERATIVE.							
250	27805	BELL	PWA			POWER SECTION	CRACKED	13831	11/13/97
HEEA	31106	212	PT6T3B			3017600	ENGINE		HEEA0012003
	3 INCH CRACK ON	N TOP OF GAS GENERA	TOR CASE JUST AFT	OF CUSTOMER AIR I	PORT.				
210	5759N	BELL				POWER SEC	FAILED	9333	11/10/97
HEEA	33002	412				3017600	ENGINE		HEEA0011876
	OIL PUMP BOLT T	HREADS STRIPPED OU	T OF GEARBOX AND	EXCESSIVE CHAFIN	G ON GEARBOX.				
7210	3893P	BELL	PWA			COMBINING GR BOX	FAILED	15964	11/13/97
HEEA	33012	412	PT6T3B			3024780	ENGINE		HEEA0011984
	NOISE IN NR1 SID	E OF GEARBOX.							
210	6559Z	BELL	PWA			COMBINING GR BOX	MAKING METAL	14154	11/13/97
HEEA	36019	412	PT6T3B			3024780	ENGINE		HEEA0012002
	COMBINING GR B	OX HAS METAL ON PL	UGS AND FILTER AF	TER 30 MINUTES RU	N AND 20 MINUTES	FLIGHT.			
261	3911L	BELL	ALLSN			HOUSING ASSY	MISMANUFACTUR	REC80	11/12/97
HEEA	33023	412	250C47B			3026669	ENG OIL		HEEA0011977
						AND LOW AT 100%. REMOV 177 AND SO#S:600971 AND 0			
7310	3533T	BOLKMS	ALLSN			CONNECTING PIECE	LEAKING		10/22/97
IEEA	S111	BO105S	250C20B			10561320	FUEL SYS		HEEA0011718
	LEAKING FROM S	WEDGED RING AT "B"	NUT.						
7322	118BH	CESSNA	CONT			FUEL METERING	OBSTRUCTED		10/28/97
	340A0003	340A	TSIO520NB			63291611	ENGINE FUEL	183	97ZZZX4842
	FERROUS MATER		METERING UNIT DO	WNSTREAM OF INLE		ORT. INVESTIGATION FOU TING FUEL FLOW. OBJECT			

<u>DOMESTIO</u>	<u>C SERVICE DIFF</u>	ICULTY REPORT S	<u>SUMMARY - ENC</u>	SINES (cont'd)			<u>11/23/97 To</u>	o 11/29/97	ISSUE: 97-48 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7200	6095S	SNIAS				ENGINE	FAILED	3039	11/12/97

0292005220

OIL SYS

ENGINE HAS LOW OIL PRESSURE AND LOWER POWER. REPLACED WITH SERVICEABLE ENGINE.

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - ENGINES)

AS350B2

HEEA

2777

HEEA0011973

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2211	789DS	BEECH				COMPUTER	DEFECTIVE		11/19/97
HEEA	BB478	200BEECH				4008519916	AUTO FLIGHT		HEEA0012056
	COMPUTER OSCII	LLATES IN ROLL.							
3451	500PH	BEECH				DME INDICATOR	DEFECTIVE		11/10/97
HEEA	BL29	200CBEECH			DME40	6221233001	COCKPIT		HEEA0011885
	DME INDICATOR	FLASHES INTERMITTE	NTLY.						
6113		BEECH		HARTZL		BULKHEAD	CRACKED	3932	2/1/96
		95B55		BHCC2YF2		22835	HUB		EY2R9600019
	BULKHEAD CRAC	CKED IN HUB BOLT HO	LES						
2312	6748D	BELL				CONTROL	DEFECTIVE		11/12/97
HEEA	51106	206L3			KFS594	071012740004	COCKPIT		HEEA0011968
	KFS594 CONTROL	HAS NO DISPLAY.							
3416	2268G	BELL			ACK	ENCODER	FAILED		11/13/97
HEEA	3603	206B3				A30	COCKPIT		HEEA0012019
	ENCODER NO AL	TITUDE OUTPUT. CALI	BRATE TO 28 VDC.						
3416	27702	BELL			ACK	ENCODER	FAILED		11/10/97
HEEA	45300	206L1				A30	COCKPIT		HEEA0011888
	ENCODER HAS NO	O VALID OUTPUT.							
3416	1078D	BELL			ACK	ENCODER	FAILED		11/10/97
HEEA	45397	206L1				A30	COCKPIT		HEEA0011887
	ENCODER HAS NO	O VALID OUTPUT.							
3416	5745N	BELL				ALTIMETER	DEFECTIVE		11/13/97
HEEA	45489	206L1				59323H5	COCKPIT		HEEA0012007
	ALTIMETER EXC	ESSIVE FRICTION ERRO	R.						
3416	41791	BELL			ACK	ENCODER	FAILED		11/13/97
HEEA	51465	206L3				A30	COCKPIT		HEEA0012018
	ALTITUDE ENCOI	DER NO VALID OUTPUT	FROM ENCODER. C	CALIBRATE TO 28 VD	OC.				
3421	107PH	BELL				INDICATOR	FAILED		11/12/97
HEEA	2789	206B3				5040017901	COCKPIT ATTITU	DE	HEEA0011962
	UPON INSTALLAT	TION, ATTITUDE INDICA	ATOR CAUSED CIRC	UIT BREAKER TO PO	P. REPLACED WITH	SERVICEABLE PART.			
3423	107PH	BELL				COMPASS	FAILED		11/19/97
HEEA	2789	206B3				C2300L424	COCKPIT		HEEA0012042
	COMPASS WILL N	IOT ADJUST.							
3425	2163Y	BELL				TRANSMITTER	FAILED		11/12/97
HEEA	3496	206B3			KFM112	071105200	COCKPIT		HEEA0011939
	COULD NOT CALI	BRATE FLUX VALVE, (	OFF 20DEG.						

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3425	5744Y	BELL				HSI CONTROL	INOPERATIVE		11/12/97
HEEA	45465	206L1				066304605	COCKPIT		HEEA0011938
	HSI INDICATOR L	IGHTS INOPERATIVE.							
3452	103PH	BELL				TRANSPONDER	DEFECTIVE		11/10/97
HEEA	3000	206B3			KT76	066106200	COCKPIT		HEEA0011862
						L P/N 134-05005-0002. REPI 0265-00. REPAIRED.BENC		N 037-00025-0	000, REPAIRED. ALSO
3452	1078G	BELL				TRANSPONDER	DEFECTIVE		11/10/97
HEEA	45398	206L1			KT76	066106200	COCKPIT		HEEA0011857
	KNOB BROKE OF	F FACE. REPLACED KN	OB. ALSO REPLACEI	O WEAK V101 CAVIT	Y OSCILLATOR. RE	PAIRED UNIT. ADJUSTED	PULSE AND FREQUEN	NCY. BENCH	CHECK GOOD.
3452	41791	BELL				TRANSCEIVER	FAILED		11/10/97
HEEA	51465	206L3			KT76	066106200	COCKPIT		HEEA0011869
						ADJUSTED V101 CAVITY T JLSE WIDTH AND FREQUE			AVITY TUBE P/N C2080A,
3457	1081T	BELL				ANTENNA	FAILED		11/10/97
HEEA	45411	206L1				1624820	COCKPIT GPS		HEEA0011868
	ANTENNA WON'T	ACQUIRE STATIONS.							
2370	27805	BELL				CVR	FAILED	2436	11/13/97
HEEA	31106	212				9806019001	COCKPIT		HEEA0011982
	CVR WILL NOT T	EST. ALSO REMOVED	PINGER P/N DK100, S	N DD13473 WITH CV	R. REPLACEMENT	PINGER S/N S9181 RECEIV	ED WITH CVR.		
2370	5736J	BELL				CVR	FAILED	3430	11/13/97
HEEA	31140	212				9806019001	COCKPIT		HEEA0011983
	CVR WILL NOT T	EST. ALSO REMOVED	PINGER P/N DK100, S	N DL8982 WITH CVR	. REPLACEMENT F	PINGER S/N S9081 RECEIVE	ED WITH CVR.		
3442	102PH	BELL				INDICATOR	DEFECTIVE		11/10/97
HEEA	30899	212			P4001	MI5852013	COCKPIT		HEEA0011870
	THE CONTRAST IS	S NOT BRIGHT ENOUG	H TO READ THE SCR	EEN. THERE IS ONL	Y ONE COLOR. INST	CALLED SERVICEABLE PA	RT.		
2312	2258F	BELL				TRANSCEIVER	FAILED		11/12/97
HEEA	33073	412			KTR905	064100900	COCKPIT VHF		HEEA0011969
	TRANSCEIVER WI	EAK AND UNREADABL	E, NO TRANSMIT.						
2370	107X	BELL				CVR	FAILED	22	11/12/97
HEEA	33113	412				9806020023	COCKPIT		HEEA0011978
	CVR TEST LIGHT	ON CONSTANTLY.							
3416	1202T	BELL				ALTIMETER	DEFECTIVE		11/13/97
HEEA	33112	412				1003511424	COCKPIT		HEEA0012011
	ALTIMETER HAS	EXCESSIVE FRICTION	ERROR.						
3416	1202T	BELL				ALTIMETER	DEFECTIVE		11/13/97
HEEA	33112	412				6221205004	COCKPIT		HEEA0012006
	ALTIMETER MISS	ING PH LIGHT.							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER		TT TSO	DIFF. DATE OPER CONT NO
3416	21498	BELL				ALTIMETER	STICKS		11/18/97
HEEA	36003	412				8503S20LW5V	COCKPIT		HEEA0012028
	ALTIMETER STICE	KS AT 500 FEET THEN J	UMPS 300 FEET. DO	ES SAME AT 1500 FE	ET.				
3421	1202T	BELL				INDICATOR	PRECESSES		11/19/97
HEEA	33112	412				222375033103	COCKPIT ATTITUDE		HEEA0012044
	ATTITUDE PRECE	SSES IN AIRCRAFT.							
3421	108X	BELL				INDICATOR	PRECESSES		11/18/97
HEEA	33115	412				222375033103	COCKPIT ATTITUDE		HEEA0012027
	ATTITUDE INDICA	ATOR PRECESSES EXCE	ESSIVELY IN ROLL A	XIS.					
3425	142PH	BELL				INDICATOR	FAILED		11/13/97
HEEA	33150	412				1113025	COCKPIT HSI		HEEA0011994
	HSI COURSE SELE COPILOT POSITIO		OOMLY IN FLIGHT. (	CHANGES CONSTAN	Γ WHEN THE COURS	SE SELECT SWITCH IN TH	E AIRCRAFT IS SWITCHED I	BETWEEN	THE PILOT AND
3442	3911L	BELL				INDICATOR	FAILED		11/12/97
HEEA	33023	412			P4001	MI5852013	COCKPIT RADAR		HEEA0011965
		RADAR IMAGE OCCAS ONG-UP PERIOD. REPLA			VHEN UNIT WAS TU	RNED ON FOR TROUBLE	SHOOTING, SCREEN WOULI	D NOT COM	ME ON (STAYED BLA
3452	22347	BELL				CONTROL	DEFECTIVE		11/10/97
HEEA	36005	412				071119218	TRANSPONDER		HEEA0011928
	XPONDER CONTR	OL LIGHTS DIM FOR D	AY USE. PERFORME	ED PRELIMINARY INS	SPECTION. FOUND I	DISPLAY DIM. REPLACEI	V101 PHOTOCELL. REPAIR	ED. BENC	H CHECK GOOD.
						DECEMBED.	FAILED		11/12/97
3455	3893N	BELL				RECEIVER	FAILED		11/12/97
	3893N 33010	BELL 412				066104701	ADF		HEEA0011970
	33010		G.						
HEEA	33010	412	G.						
HEEA 2312	33010 ADF WILL NOT RE	412 ECEIVE FOR VERY LON	G.		RT40	066104701	ADF		HEEA0011970
HEEA 2312	33010 ADF WILL NOT RE 911PF S718	412 ECEIVE FOR VERY LON BOLKMS			RT40	066104701 TRANSCEIVER	ADF INTERMITTENT		HEEA0011970 11/10/97
HEEA  2312 HEEA	33010 ADF WILL NOT RE 911PF S718	412 ECEIVE FOR VERY LON BOLKMS BO105S			RT40 NARCO	066104701 TRANSCEIVER	ADF INTERMITTENT		HEEA0011970 11/10/97
2312 HEEA 2562	33010 ADF WILL NOT RE 911PF S718 RT40 TRANSCEIVE	412 ECEIVE FOR VERY LON BOLKMS BO105S ER VERY INTERMITTE				066104701 TRANSCEIVER 40001278500	ADF  INTERMITTENT  COCKPIT VHF		HEEA0011970 11/10/97 HEEA0011864
2312 HEEA 2562	33010 ADF WILL NOT RE 911PF S718 RT40 TRANSCEIVE 911FL	412 ECEIVE FOR VERY LON BOLKMS BO105S ER VERY INTERMITTED BOLKMS BO105S				066104701  TRANSCEIVER 40001278500  ELT	ADF  INTERMITTENT  COCKPIT VHF  WEAK		HEEA0011970 11/10/97 HEEA0011864 11/12/97
2312 HEEA 2562 HEEA	33010 ADF WILL NOT RE 911PF S718 RT40 TRANSCEIVE 911FL S717	412 ECEIVE FOR VERY LON BOLKMS BO105S ER VERY INTERMITTED BOLKMS BO105S				066104701  TRANSCEIVER 40001278500  ELT	ADF  INTERMITTENT  COCKPIT VHF  WEAK		HEEA0011970 11/10/97 HEEA0011864 11/12/97
2312 HEEA 2562 HEEA 3416	33010 ADF WILL NOT RE 911PF S718 RT40 TRANSCEIVE 911FL S717 ELT HAS WEAK SI	412 ECEIVE FOR VERY LON BOLKMS BO105S ER VERY INTERMITTED BOLKMS BO105S IGNAL.			NARCO	066104701  TRANSCEIVER 40001278500  ELT ELT1104	ADF  INTERMITTENT  COCKPIT VHF  WEAK  COCKPIT		HEEA0011970  11/10/97  HEEA0011864  11/12/97  HEEA0011944
2312 HEEA 2562 HEEA	33010 ADF WILL NOT RE 911PF S718 RT40 TRANSCEIVE 911FL S717 ELT HAS WEAK SE 50293 S677	412  ECEIVE FOR VERY LON  BOLKMS  BO105S  ER VERY INTERMITTED  BOLKMS  BO105S  IGNAL.  BOLKMS	NT RECEIVE.		NARCO	TRANSCEIVER 40001278500  ELT ELT1104  ENCODER	ADF  INTERMITTENT COCKPIT VHF  WEAK COCKPIT  FAILED		HEEA0011970  11/10/97  HEEA0011864  11/12/97  HEEA0011944  11/10/97
2312 HEEA 2562 HEEA 3416 HEEA	33010 ADF WILL NOT RE 911PF S718 RT40 TRANSCEIVE 911FL S717 ELT HAS WEAK SE 50293 S677	412 ECEIVE FOR VERY LON BOLKMS BO105S ER VERY INTERMITTED BOLKMS BO105S IGNAL. BOLKMS BO105S	NT RECEIVE.		NARCO	TRANSCEIVER 40001278500  ELT ELT1104  ENCODER	ADF  INTERMITTENT COCKPIT VHF  WEAK COCKPIT  FAILED		HEEA0011970  11/10/97  HEEA0011864  11/12/97  HEEA0011944  11/10/97
2312 HEEA 2562 HEEA 3416 HEEA	33010 ADF WILL NOT RE 911PF S718 RT40 TRANSCEIVE 911FL S717 ELT HAS WEAK SE 50293 S677 ALTITUDE ENCOR	412 ECEIVE FOR VERY LON BOLKMS BO105S ER VERY INTERMITTED BOLKMS BO105S IGNAL. BOLKMS BO105S DER NO VALID OUTPUT	NT RECEIVE.		NARCO	TRANSCEIVER 40001278500  ELT ELT1104  ENCODER A30	ADF  INTERMITTENT COCKPIT VHF  WEAK COCKPIT  FAILED COCKPIT		HEEA0011970  11/10/97  HEEA0011864  11/12/97  HEEA0011944  11/10/97  HEEA0011886
2312 HEEA 2562 HEEA 3416 HEEA	33010 ADF WILL NOT RE 911PF S718 RT40 TRANSCEIVE 911FL S717 ELT HAS WEAK SE 50293 S677 ALTITUDE ENCOR	412 ECEIVE FOR VERY LON BOLKMS BO105S ER VERY INTERMITTED BOLKMS BO105S IGNAL. BOLKMS BO105S DER NO VALID OUTPUT BOLKMS	NT RECEIVE.		NARCO	TRANSCEIVER 40001278500  ELT ELT1104  ENCODER A30  INDICATOR	ADF  INTERMITTENT COCKPIT VHF  WEAK COCKPIT  FAILED COCKPIT  INOPERATIVE		HEEA0011970  11/10/97  HEEA0011864  11/12/97  HEEA0011944  11/10/97  HEEA0011886
3455 HEEA 2312 HEEA 2562 HEEA 3416 HEEA 3421 HEEA	33010 ADF WILL NOT RE 911PF S718 RT40 TRANSCEIVE 911FL S717 ELT HAS WEAK SE 50293 S677 ALTITUDE ENCOR	412 ECEIVE FOR VERY LON BOLKMS BO105S ER VERY INTERMITTED BOLKMS BO105S IGNAL. BOLKMS BO105S DER NO VALID OUTPUT BOLKMS BO105S ATOR INOPERATIVE.	NT RECEIVE.		NARCO ACK	066104701  TRANSCEIVER 40001278500  ELT ELT1104  ENCODER A30  INDICATOR 5040017901	INTERMITTENT COCKPIT VHF  WEAK COCKPIT  FAILED COCKPIT  INOPERATIVE COCKPIT ATTITUDE		HEEA0011970  11/10/97 HEEA0011864  11/12/97 HEEA0011944  11/10/97 HEEA0011886  11/12/97 HEEA0011959
2312 HEEA 2562 HEEA 3416 HEEA	33010 ADF WILL NOT RE 911PF S718 RT40 TRANSCEIVE 911FL S717 ELT HAS WEAK SE 50293 S677 ALTITUDE ENCOR	412 ECEIVE FOR VERY LON BOLKMS BO105S ER VERY INTERMITTE! BOLKMS BO105S IGNAL. BOLKMS BO105S DER NO VALID OUTPUT BOLKMS BO105S	NT RECEIVE.		NARCO	TRANSCEIVER 40001278500  ELT ELT1104  ENCODER A30  INDICATOR	ADF  INTERMITTENT COCKPIT VHF  WEAK COCKPIT  FAILED COCKPIT  INOPERATIVE		HEEA0011970  11/10/97 HEEA0011864  11/12/97 HEEA0011944  11/10/97 HEEA0011886

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS (cont'd)
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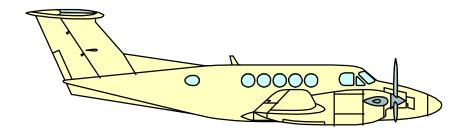
OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2210	134AE	BOLKMS				CONTROL UNIT	FAILED		11/13/97
HEEA	7237	BK117B2				117884141	COCKPIT		HEEA0011995
	CONTROL UNIT D	ROPPED OFF LINE SEV	ERAL TIMES, WOUL	D NOT COME ON ONI	E TIME.				
2312	401PH	BOLKMS				TRANSCEIVER	FAILED		11/10/97
HEEA	7050	BK117A3				4000102002	COCKPIT		HEEA0011863
	RT138 PIN ON FRO	ONT CONNECTOR BROKE	KEN. POPS CIRCUIT	BREAKER.					
312	401PH	BOLKMS				TRANSCEIVER	FAILED		11/10/97
HEEA	7050	BK117A3			RT138F	40001452502	COCKPIT		HEEA0011859
	TRANSCEIVER WI GOOD.	ILL NOT TRANSMIT. FO	UND VR3 VOLTAGE	REGULATOR ON VC	O CONTROL BOARD	) INOPERATIVE. REPLACI	ED VOLTAGE REGULA	TOR. REPAIR	ED UNIT. BENCH CHEC
3452	911LK	BOLKMS				TRANSPONDER	FAILED		11/10/97
HEEA	7068	BK117B2			KT76	066106200	COCKPIT		HEEA0011858
	TRANSPONDER W	TILL NOT IDENT. REPLA	CED CAVITY OSCIL	LATOR V01. REPAIR	ED. INSTALLED CA	P PLUGS. ADJUSTED FRE	QUENCY. BENCH CHE	CK GOOD.	
416	701TF	PIPER				ENCODER	HANG UP		10/25/97
	701TF 4608104	PIPER PA46310P				ENCODER 5035P	HANG UP END SHAKE		10/25/97 97ZZZX4846
	4608104 INCOMING INSPECTEND SHAKE CONI	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS	TRUMENTS HAS CA	USED THE POINTERS	TO HANG UP IN DE		END SHAKE LS OUT A MINIMUM EI JR COLD SOAK AT 35 I		97ZZZX4846 F.0020 INCH. THE ZERC
EI4R	4608104 INCOMING INSPECTEND SHAKE CONI	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS	TRUMENTS HAS CA	USED THE POINTERS	TO HANG UP IN DE	5035P OVERHAUL MANUAL CAL SCENT AFTER A 1-1/2 HOU	END SHAKE LS OUT A MINIMUM EI JR COLD SOAK AT 35 I		97ZZZX4846 F.0020 INCH. THE ZERO
EI4R 2210	4608104 INCOMING INSPE END SHAKE CONI FACTORY HAS IN	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS DICATED THAT AN EN	TRUMENTS HAS CA	USED THE POINTERS	TO HANG UP IN DE	5035P OVERHAUL MANUAL CAL SCENT AFTER A 1-1/2 HOU G-UPS AFTER A COLD TE	END SHAKE LS OUT A MINIMUM EI UR COLD SOAK AT 35 I ST.		97ZZZX4846 7.0020 INCH. THE ZERC IRENHEIT. THE
EI4R 2210	4608104 INCOMING INSPECTORY HAS INTERPRETABLE TO THE TRANSPORTED TO TH	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS DICATED THAT AN ENI SKRSKY	TRUMENTS HAS CA D SHAKE OF .0004 IN	USED THE POINTERS CH OR LESS WILL CA	TO HANG UP IN DE	5035P OVERHAUL MANUAL CAL SCENT AFTER A 1-1/2 HOU G-UPS AFTER A COLD TES YAW INDICATOR	END SHAKE LS OUT A MINIMUM EI UR COLD SOAK AT 35 I ST. MALFUNCTION		97ZZZX4846 F.0020 INCH. THE ZERC IRENHEIT. THE 11/19/97
EI4R 2210 HEEA	4608104 INCOMING INSPECTORY HAS INTERPRETABLE TO THE TRANSPORTED TO TH	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS DICATED THAT AN ENI SKRSKY S76A	TRUMENTS HAS CA D SHAKE OF .0004 IN	USED THE POINTERS CH OR LESS WILL CA	TO HANG UP IN DE	5035P OVERHAUL MANUAL CAL SCENT AFTER A 1-1/2 HOU G-UPS AFTER A COLD TES YAW INDICATOR	END SHAKE LS OUT A MINIMUM EI UR COLD SOAK AT 35 I ST. MALFUNCTION		97ZZZX4846 F.0020 INCH. THE ZERC IRENHEIT. THE 11/19/97
2210 HEEA	4608104 INCOMING INSPECTIVE END SHAKE CONIFACTORY HAS INTERPRETABLE TO THE TOTAL TO THE T	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS DICATED THAT AN ENI SKRSKY S76A ROLL AND PITCH AFTI	TRUMENTS HAS CA D SHAKE OF .0004 IN	USED THE POINTERS CH OR LESS WILL CA	TO HANG UP IN DE	5035P  OVERHAUL MANUAL CAL SCENT AFTER A 1-1/2 HOU G-UPS AFTER A COLD TES  YAW INDICATOR  7690001804103	END SHAKE LS OUT A MINIMUM EI UR COLD SOAK AT 35 I ST.  MALFUNCTION ROLL-PITCH		97ZZZX4846 7.0020 INCH. THE ZERC IRENHEIT. THE 11/19/97 HEEA0012059
2210 HEEA	4608104 INCOMING INSPECEND SHAKE CONIFACTORY HAS INITED TO THE PROPERTY OF T	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS DICATED THAT AN ENI SKRSKY S76A ROLL AND PITCH AFTI	TRUMENTS HAS CA D SHAKE OF .0004 IN ER ONE HOUR OF FL	USED THE POINTERS CH OR LESS WILL CA IGHT.	TO HANG UP IN DE	5035P DVERHAUL MANUAL CAL SCENT AFTER A 1-1/2 HOU G-UPS AFTER A COLD TES YAW INDICATOR 7690001804103 INDICATOR	END SHAKE LS OUT A MINIMUM EI UR COLD SOAK AT 35 I ST.  MALFUNCTION ROLL-PITCH  FAILED		97ZZZX4846 7.0020 INCH. THE ZERO IRENHEIT. THE  11/19/97 HEEA0012059  11/18/97
3416 EI4R 2210 HEEA 3414 HEEA	4608104 INCOMING INSPECEND SHAKE CONIFACTORY HAS INITED TO THE PROPERTY OF T	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS DICATED THAT AN ENI SKRSKY S76A ROLL AND PITCH AFTI SKRSKY S76A	TRUMENTS HAS CA D SHAKE OF .0004 IN ER ONE HOUR OF FL	USED THE POINTERS CH OR LESS WILL CA IGHT.	TO HANG UP IN DE	5035P DVERHAUL MANUAL CAL SCENT AFTER A 1-1/2 HOU G-UPS AFTER A COLD TES YAW INDICATOR 7690001804103 INDICATOR	END SHAKE LS OUT A MINIMUM EI UR COLD SOAK AT 35 I ST.  MALFUNCTION ROLL-PITCH  FAILED		97ZZZX4846 7.0020 INCH. THE ZERO IRENHEIT. THE  11/19/97 HEEA0012059  11/18/97
2210 HEEA 3414 HEEA	4608104 INCOMING INSPECTEND SHAKE CONIFACTORY HAS INTERPOLATION TO SHARE TO SHARE THE	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS DICATED THAT AN ENI SKRSKY S76A ROLL AND PITCH AFTI SKRSKY S76A JP ON SPEED. SENT TO	TRUMENTS HAS CA D SHAKE OF .0004 IN ER ONE HOUR OF FL	USED THE POINTERS CH OR LESS WILL CA IGHT.	TO HANG UP IN DE	5035P  OVERHAUL MANUAL CAL SCENT AFTER A 1-1/2 HOU G-UPS AFTER A COLD TE:  YAW INDICATOR 7690001804103  INDICATOR 2002011293	END SHAKE LS OUT A MINIMUM EI UR COLD SOAK AT 35 I ST.  MALFUNCTION ROLL-PITCH  FAILED AIR SPEED		97ZZZX4846 5.0020 INCH. THE ZERO IRENHEIT. THE  11/19/97 HEEA0012059  11/18/97 HEEA0012022
2210 HEEA 3414 HEEA	4608104 INCOMING INSPECEND SHAKE CONIFACTORY HAS INITIALLY TO THE SHARE CONIFACTORY HAS INITIALLY TO THE SHARE CONIFACTORY HAS INITIALLY TO THE SHARE CONIFACTORY TO THE SH	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS DICATED THAT AN ENI SKRSKY S76A ROLL AND PITCH AFTI SKRSKY S76A JP ON SPEED. SENT TO SKRSKY	TRUMENTS HAS CA D SHAKE OF .0004 IN ER ONE HOUR OF FL MASCO FOR INSPEC	USED THE POINTERS CH OR LESS WILL CA IGHT.	TO HANG UP IN DE	5035P  OVERHAUL MANUAL CAL SCENT AFTER A 1-1/2 HOU G-UPS AFTER A COLD TES  YAW INDICATOR 7690001804103  INDICATOR 2002011293  GYRO	END SHAKE LS OUT A MINIMUM EI UR COLD SOAK AT 35 I ST.  MALFUNCTION ROLL-PITCH  FAILED AIR SPEED  MALFUNCTION		97ZZZX4846 5.0020 INCH. THE ZERO IRENHEIT. THE  11/19/97 HEEA0012059  11/18/97 HEEA0012022
2210 HEEA 3414 HEEA	4608104 INCOMING INSPECEND SHAKE CONIFACTORY HAS INITIALLY TO THE SHARE CONIFACTORY HAS INITIALLY TO THE SHARE CONIFACTORY HAS INITIALLY TO THE SHARE CONIFACTORY TO THE SH	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS DICATED THAT AN ENI SKRSKY S76A ROLL AND PITCH AFTI SKRSKY S76A JP ON SPEED. SENT TO SKRSKY S76A	TRUMENTS HAS CA D SHAKE OF .0004 IN ER ONE HOUR OF FL MASCO FOR INSPEC	USED THE POINTERS CH OR LESS WILL CA IGHT.	TO HANG UP IN DE	5035P  OVERHAUL MANUAL CAL SCENT AFTER A 1-1/2 HOU G-UPS AFTER A COLD TES  YAW INDICATOR 7690001804103  INDICATOR 2002011293  GYRO	END SHAKE LS OUT A MINIMUM EI UR COLD SOAK AT 35 I ST.  MALFUNCTION ROLL-PITCH  FAILED AIR SPEED  MALFUNCTION		97ZZZX4846 5.0020 INCH. THE ZERO IRENHEIT. THE  11/19/97 HEEA0012059  11/18/97 HEEA0012022
2210 HEEA 3414 HEEA 3421 HEEA	4608104 INCOMING INSPECTEND SHAKE CONIFACTORY HAS INTERPRETED TO SHAKE CONIFACTORY HAS INTERPRETED TO SHAPE TO	PA46310P CTION, TWO CRITICAL DITION IN SIMILAR INS DICATED THAT AN ENI SKRSKY S76A ROLL AND PITCH AFTI SKRSKY S76A JP ON SPEED. SENT TO SKRSKY S76A R OF FLIGHT TIME NR1	TRUMENTS HAS CA D SHAKE OF .0004 IN ER ONE HOUR OF FL MASCO FOR INSPEC	USED THE POINTERS CH OR LESS WILL CA IGHT.	TO HANG UP IN DE	5035P  OVERHAUL MANUAL CAL SCENT AFTER A 1-1/2 HOU G-UPS AFTER A COLD TES  YAW INDICATOR 7690001804103  INDICATOR 2002011293  GYRO 7660002113102	END SHAKE LS OUT A MINIMUM EI UR COLD SOAK AT 35 I ST.  MALFUNCTION ROLL-PITCH  FAILED AIR SPEED  MALFUNCTION COCKPIT VG		97ZZZX4846 F.0020 INCH. THE ZERO IRENHEIT. THE  11/19/97 HEEA0012059  11/18/97 HEEA0012022  11/18/97 HEEA0012026

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO		
6110		BEECH		HARTZL		BEARING	CRACKED		1/1/96		
		18*		HCB3TN5		1851T	PROP		EY2R9600012		
	PROP ASSY BEARING CRACKED										
6114		BEECH		MCAULY		HUB	CRACKED		1/1/96		
		9555		2AF34C55		C4206C55	THREAD AREA		EY2R9600001		
	PROP CRACKED I	N HUB THREAD AREA									
6112	110BA	BEECH			RAPCO	DEICE BOOT	FAILED	1345	11/7/97		
	LD279	65B80				RA12884	NR 2 PROP WIRES		97ZZZX4839		
	DEICE BOOT LEAD BREAKS 12 INCHES FROM TERMINALS AFTER FOLLOWING NEW INSTALLATION SUGGESTIONS.										
5112	107BA	BEECH			RAPCO	DEICE BOOT	FAILED	540	10/3/97		
	LD358	65B80				RA12884	NR 1 PROP WIRES		97ZZZX4840		
	DEICE BOOT LEADS ARE CONTINUING TO BREAK APPROXIMATELY 12 INCHES FROM THE TERMINALS EVEN AFTER RAPCO'S NEW INSTALLATION SUGGESTIONS.										
6111		BEECH		HARTZL		FEATHER SPRING	CRACKED		1/1/96		
		95B55		HCC2YF2		15941	PROP		EY2R9600013		
	PROP ASSY FEATHERING SPRING CRACKED										
5110		CESSNA		MCAULY		FIX PITCH	CRACKED		2/1/96		
		152		1A103TCM			NR 1 MT HOLE		EY2R9600015		
	NR 1 MOUNTING	HOLE									
6114		CESSNA		MCAULY		HUB	CRACKED		1/1/96		
		180		3AF34C*		C5480C66	NR 2 SOCKET		EY2R9600002		
	HUB CRACKED IN	N NR2 BLADE SOCKET									
6114		CESSNA		MCAULY		HUB	CRACKED		1/1/96		
		188CESSNA		D2A34C98		C4716C98	NR 2 SOCKET		EY2R9600008		
	NR 2 BLADE SOCI	KET CRACKED									
6114		CESSNA		MCAULY		HUB	CRACKED		2/1/96		
		188CESSNA		D2A34C98		C4716C98	PROP		EY2R9600020		
	PROP HUB CRACE	KED									
6110		CESSNA		MCAULY		SPRING HOUSING	CRACKED	3797	1/1/96		
		208B		3GFR34C703		C5304	PROP ASSY		EY2R9600007		
	SPRING HOUSING	G CRACKED									
6111		CESSNA		MCAULY		BLADE	CRACKED		1/1/96		
		310Q		D3AF32C80		S82NC2	THREAD AREA		EY2R9600009		
	BLADE SN K66887	YS, CRACKED IN THRE	EAD AREA								
6114		CESSNA		MCAULY		NUT	CRACKED		1/1/96		
		310		3AF32C87		C3475	HUB		EY2R9600004		
	PROP HUB NUT C	RACKED									

DOMES 7	TIC SERVICE DIFI	FICULTY REPORT	SUMMARY - PRO	OPELLERS (cont'd	<u>)</u>		11/23/97 T	o 11/29/97	ISSUE: 97-48 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114		CESSNA		MCAULY		HUB	CRACKED		2/1/96
		310		3AF32C87		D7015C87	ROD HOLE		EY2R9600016
	HUB PISTON ROD	HOLE CRACKED							
6114		CESSNA		MCAULY		HUB	CRACKED		2/1/96
		310		3AF32C87		D7015C87	NR 1 SOCKET		EY2R9600017
	HUB HAS CRACK	ED IN NR1 & 3 SOCKETS	S						
6114		CESSNA		MCAULY		HUB	CRACKED		1/1/96
		310R		3AF32C87		D7015C87	NR 3 SOCKET		EY2R9600005
	PROP HUB CRACE	KED NR3 SOCKET							
6114		CESSNA		MCAULY		HUB	CRACKED		1/1/96
		310R		3AF32C87		D7027C87	PROP		EY2R9600003
	PROP HUB CRACK	KED							
6114		CESSNA		MCAULY		FERRULE	CRACKED		1/1/96
		414		3AF32C93		C4451	HUB		EY2R9600006
	PROP CRACKED IN FERULE BEARING AREA								
6110		MTSBSI		HARTZL		BEARING	CRACKED		1/1/96
		MU2*		HCB3TN5		1851T	PROP		EY2R9600011
	PROP ASSY BEAR	ING CRACKED							
6111		PIPER		HARTZL		BLADE	CRACKED		1/1/96
		PA34200		HCC2YK2		FJC7666A	BUTT AREA		EY2R9600014
	BLADE SN C43336	, CRACKED IN BUTT A	REA						
(End of DO	OMESTIC SERVICE	DIFFICULTY REPOR	T SUMMARY - PR	OPELLERS)					



### INTERNATIONAL SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
435		CESSNA		MCAULY		STARTER	FAILED	490	6/17/97
		A185F		D3A34C403		646275	BRUSHES		CA970904016
	AND SPOT WELDE		ALL FOUR FIELD COI	LS WERE LOOSE ON	THEIR RESPECTIVE	ON NEXT TO WHERE BRU POLE SHOES AND HAD C			
551		CESSNA	CONT	MCAULY		FITTING	FAILED		10/23/97
		210M	IO520L	D3A34C404		07326015	HORIZ STAB		AU971339
	(AUS) HORIZONTA	AL STABILISER RH FOR	WARD ATTACHMEN	NT FITTING FAILED A	ND SEPARATED.				
710		CESSNA	CONT	MCAULY		CONTROL	JAMMED		10/16/97
		310Q	IO470U	3AF32C87			AILERON CONTROL	_	AU971345
	(AUS) AILERON CO	ONTROL SYSTEM JAMI	MED. EVIDENCE OF	FOD LODGED BETWE	EEN CHAIN AND SPI	ROCKET.			
322		CESSNA	CONT	MCAULY	PARKER	PUMP	JAMMED		10/27/97
		402C	TSIO520VB	3AF32C93	2B729OH	7AC320	FUEL BOOST PUMP	1444	AU971351
	` /	FUEL PUMP CONTAMI E IAW AD/CESSNA400/			ARF JAMMED THE I	PUMP VANES ALLOWING	FUEL INTO THE MOTOR	WINDINGS	. THEAIRCRAFT HAD A
230		CESSNA		MCAULY		PIPE	FAILED		10/18/97
		404CESSNA		3FF32C501		581710212	GEAR RETRACT		AU971343
	(AUS) LANDING G	EAR HYDRAULIC PIPE	FAILED.						
320		CESSNA	PWA			CHANNEL	CRACKED	703	8/12/97
		550	JT15D4			552241738	WHEEL WELLS		CA970902003
	(CAN) CHANNELS	IN LEFT HAND WHEEL	WELLS FOUND CRA	ACKED DURING A PH	ASE INSPECTION.				
842		DHAV	PWA		GENELC	TRANSMITTER	FAILED		8/14/97
		DHC2MK1	R985AN14B			TJ13	FUEL QTY	90	CA970820022
	(CAN) FUEL CONT	ENTS INDICATION ERI	RATIC. FUEL NEEDL	E INDICATOR FLOPPI	NG AROUND. TRAN	SMITTER FOUND FAILED	·.		
312		DHAV				BULKHEAD	CRACKED	9385	8/12/97
		DHC2MK3				C2FS533	FS228		CA970822003
	` /	WAS REPLACED. TOTA				ULKHEAD, ATTACHED TO S. NO REPORTS OF ROUG			
502		DHAV				CONTROL CABLE	FAILURE		8/8/94
		DHC3				78710C636952	MIXTURE		CA940830006
	(CAN) MXITURE C	ONTROL CABLE FAILE	ED AT THREADED EN	ND AT SLIDE DUE TO	FATIGUE.				
123		DHAV	PWA	HARTZL		BETA SWITCH	STUCK		8/20/97
		DHC6300	PT6A27	HCB3TN3		KX511	NR2 ENGINE		CA970902030
	` /					F. BETA SWITCH ON ENGI INECTED FROM THE AIRC			
434		PIPER	LYC	SNSNCH		ALTERNATOR	FAILED		9/18/97
		PA28151	O320E3D	M74DM		4111810	DC GENERATOR	1785	AU971341
	(AUS) ALTERNATO	OR FAILED. BATTERY	WENT FLAT.						

<u>INTERNA</u>	ATIONAL SERVIC	<u>E DIFFICULTY RE</u>	PORT SUMMARY	<u> / - AIRCRAFT (co</u>	ont'd)		<u>11/23/97 To 1</u>	1/29/97	ISSUE: 97-48 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2140		PIPER		HARTZL		REGULATOR	LEAKING		10/17/97
		PA31350		HCE3YR2		461731	HEATING SYSTEM		AU971347
	(AUS) HEATER FU	EL REGULATOR LEAKI	NG AT LOWER HOUS	SING JOIN. THE LEAR	WAS CLASSED AS	SUBSTANTIAL IN THAT IT	WAS A SOLID JET OF FU	JEL.	
5311		PIPER				FRAME	CRACKED		10/9/97
		PA38112			7745002	7746709	BS 99.9		AU971334
	(AUS) FUSELAGE I BOTH LOWER CO		TN 99.9 CRACKED IN	LOWER RH EDGE. T	HE FRAME HAD PRE	VIOUSLY BEEN REPAIREI	BY INSTALLATION OF	A DOUBL	ER AND CHANNEL AT

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT)

### INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS 11/23/97 - 11/29/97 ISSUE: 97-48 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7240		AEROSP	TMECA			BURNER CAN	BURNED	3370	8/12/97
		SA315B	ARTOUSTE3B				ENGINE	1826	CA970820004
	(CAN) INCREASE I	IN T4 TEMPERATURE L	EAD TO INVESTIGAT	TON AND A HOLE W	AS FOUND BURNEI	THROUGH BURNER CAN	. ENGINE WAS REMOVE	ED FOR REP.	AIR.
7250		BELL	ALLSN			SEAL	LEAKING	14402	8/13/97
		206B	250C20				NR8 LABYRINTH	518	CA970904028
	(CAN) NR8 LABYR	RINTH SEAL LEAKING.							
7321		BELL	ALLSN			FUEL CONTROL	FAULTY		7/21/97
		206A	250C20			23057344	ENGINE	722	CA970904029
		UTS OFF WHEN THRO? OLLED OFF ABRUPTLY		O 25 DEGREES ON F	CU QUADRANT. WI	IEN THROTTLE IS RIGGEI	TO IDLE AT 30 DEGRE	ES, IT WILL	GO BELOW 30 DEGREES
8011		BELL	ALLSN			SEAL	WORN	95	8/25/93
		206L	250C20			6854424	STARTER PAD		CA940902032
	(CAN) DURING IN	SPECTION, IT WAS NO	ΓΙCED THAT THE STA	RTER SEAL WAS LE	AKING. STARTER S	EAL WAS REPLACED.			
6410		BELL	LYC		BELL	BLADE	SEPARATED		10/23/97
		47G3B1	TVO435B1A			RE3115	T/R BLD TIP WGHT		AU971354
	(AUS) TAIL ROTO	R BLADE TIP WEIGHT S	SEPARATED.						
8520		ENSTRM	LYC			CRANKCASE	CRACKED	1866	5/26/97
		280	HIO360C1A			10360CIA	NR2 CYL AREA	316	CA970903009
						PECTION FOUND A HAIRL THE CRANKCASE HALVES			
6210		HUGHES	ALLSN		HUGHES	PIN	BROKEN		10/23/97
		369D	250C20B			369A10045	MAIN ROTOR BLA	DE	AU971346
	(AUS) MAIN ROTO	OR BLADE PIN BROKEN	OFF IN AREA OF TH	READED SHANK.					
7260		SKRSKY	ALLSN			SEAL RUNNER	CRACKED		8/15/97
		S76A	250C30S				PTO GEAR		CA970822001
	(CAN) SEAL LEAK CRACKED.	ING AT OUTPUT DRIV	E FLANGE ON ENGIN	E GEARBOX. DURIN	G SEAL REPLACEM	ENT, IT WAS NOTICED TH	AT THE PTO GEAR AT T	THE SEAL LI	P CONTACT WAS
End of IN	TERNATIONAL SEF	RVICE DIFFICULTY I	REPORT SUMMAR	Y - HELICOPTERS)					

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO			
7240		AEROSP	TMECA			BURNER CAN	BURNED	3370	8/12/97			
		SA315B	ARTOUSTE3B				ENGINE	1826	CA970820004			
	(CAN) INCREASE IN T4 TEMPERATURE LEAD TO INVESTIGATION AND A HOLE WAS FOUND BURNED THROUGH BURNER CAN. ENGINE WAS REMOVED FOR REPAIR.											
7314		BEECH	PWA			PUMP	WORN		8/4/97			
		100BEECH	PT6A28			025323101	NR 1 ENG FUEL	8992	CA970822002			
	(CAN) FUEL PUMI	ON NR1 ENGINE STOP	PPED DUE TO WEAR	ON THE DRIVE SPLIN	NE SHAFT LOCATED	BETWEEN THE PUMP SHA	AFT AND THE ACESSOF	RY CASE.				
7322		BEECH	PWA		BENDIX	CARBURETOR	FAILED		8/21/97			
		E18S9700	R985AN14B		NAR9B	A302503	RH ENGINE	661	CA970902022			
	FEATHERING PUN RH CARB REPLAC	IP RELAY CONTACTS I CED, RH CUTOUT SWITC UNCTIONALLY CHECK	FUSED DUE TO CONT CH REPLACED, RH F KED SERVICEABLE	ΓINUOUS HIGH CURF	RENT LOADS, BATTI	RCUIT BREAKER POPPING ERIES DRAINED AND COM ATTERIES SERVICED AND	PLETE ELECTRICAL FA CHARGED, LH AND RI	AILURE OCC	URRED. RECTIFICATION: GENERATORS AND PROPS			
7200		BEECH	PWA			ENGINE	FAILED		10/3/97			
****		200BEECH	PT6A41			AMETERS WERE NORMAL	EXHAUST STACK		CA971015062			
8520	MINOR COATING		E ASSEMBLY WITH I			EED AND FUEL FLOW WER CT BLADES ROOTS. THE I						
0320		58	IO550C			646277	NR 1 & 5 EXH VAL		CA970820017			
		(CAN) DURING INSPECTON FINE METAL METAL (STEEL) PARTICLES WERE FOUND IN THE OIL FILTER. FURTHER INSPECTION REVEALED THE NR1 AND NR5 CYLINDERS EXHAUST VALVE LIFTERS WERE FOUND WORN ON THE LIFTER FACES. THE ENGINE WILL BE RETURNED TO CONTINENTAL TO DETERMINE THE CAUSE OF THE FAILURE.										
8520		BEECH	LYC			STUD	SHEARED		9/1/97			
		E95	IO360B1B			5015	NR2 CYLINDER	1596	CA970904034			
	(CAN) ON DAILY INSPECTION THE UPPER FORWARD CYLINDER BASE STUD ON THE NR2 CYLINDER WAS FOUND SHEARED OFF. THE STUD WAS REPLACED AND THE AIRCRAFT RETURNED TO SERVICE.											
7250		BELL	ALLSN			SEAL	LEAKING	14402	8/13/97			
		206B	250C20				NR8 LABYRINTH	518	CA970904028			
	(CAN) NR8 LABYF	RINTH SEAL LEAKING.										
7321		BELL	ALLSN			FUEL CONTROL	FAULTY		7/21/97			
		206A	250C20			23057344	ENGINE	722	CA970904029			
	, ,	UTS OFF WHEN THRO OLLED OFF ABRUPTL		ГО 25 DEGREES ON F	CU QUADRANT. WI	HEN THROTTLE IS RIGGED	TO IDLE AT 30 DEGRE	EES, IT WILL	GO BELOW 30 DEGREES			
7414		BLANCA	LYC		BENDIX	IMPULSE COUPLING	WORN		6/28/97			
		1731A	IO540K1E5		103493704	10349371	LH MAGNETO	217	CA970902023			
	,					DING CARRRIED OUT IN FI E GEARS IN THE ACCESSO						

OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
8500		BNORM	LYC			ENGINE	FAILED		8/29/97	
		BN2A27	O540E4C5				POWER SECT	1576	CA970910006	
	(CAN) ENGINE QUIT WITHOUT WARNING. INSPECTION FOUND METAL IN THE OIL SCREENS. NO EXTERNAL LEAKS OR HOLES. PROBLEM TO BE DETERMINED ON TEARDOWN									
7322		CESSNA	CONT			CARBURETOR	WORN	7190	7/14/97	
		150C	O200A			MA3SPA	CARB HEAT BOX		CA970910004	
	CARBURETOR HE THE THREADS WI	AT BOX WERE LOOSE,	EVEN THOUGH THE OT GRIP. THE LOCA	E SCREWS WERE INST ΓΙΟΝ OF THESE SCRE	TALLED WITH LOCK	FURTHER INSPECTION RE WASHERS AND WERE PR RBURETOR HEAT BOX CO	OPERLY LOCKWIRED.	INSPECTION	OF THE SCREWS FOUND	
8520		CESSNA	LYC	MCAULY		TAPPET	BROKEN	249	8/18/97	
		152	O235L2C	1A103TCM			NR2 EX PUSH ROD		CA970902029	
	` /	GINE VIBRATION IN F CTED THE TAPPET IS I				NSPECTION FOUND THE N	R2 CYLINDER PUSH RC	DD LOOSE AN	ID INTAKE PUSH ROD	
7414		CESSNA	LYC			MAGNETO	FAILED		8/26/97	
		172N	O320H2AD			1038255514	DRIVE TEETH		CA970915001	
	( - )					ATTEMPT TO RESTART T AIRCRAFT WAS RETURN		BLESHOOTIN	NG. REMOVAL OF THE	
8530		CESSNA	LYC	MCAULY	LYC	VALVE	STICKING		1/18/97	
		172N	O320D3G	1C160DTM			ENGINE EXH		AU971342	
	(AUS) ENGINE EX	HAUST VALVE STUCK	AND PUSHROD DEF	ORMED.						
8550		CESSNA	CONT	MCAULY		PLUG	LOOSE		10/26/97	
		R172K	IO360K	2A34C203			ENG OIL DRAIN		AU971338	
		K1/2K							1107/1330	
	(AUS) ENGINE OII		HTENED OR LOCKV	VIRED FOLLOWING A	AN OIL CHANGE. PEI	RSONNEL/MAINTENANCE	ERROR.			
8530	(AUS) ENGINE OII		CONT	VIRED FOLLOWING A	N OIL CHANGE. PEI	RSONNEL/MAINTENANCE CYLINDER	ERROR. CRACKED		7/24/97	
8530	(AUS) ENGINE OIL	DRAIN PLUG NOT TIC		VIRED FOLLOWING A	AN OIL CHANGE. PEI			3		
8530		DRAIN PLUG NOT TIC CESSNA 182B	CONT O470L			CYLINDER	CRACKED NR1 POSITION	3	7/24/97	
		DRAIN PLUG NOT TIC CESSNA 182B	CONT O470L			CYLINDER VG47005A21P	CRACKED NR1 POSITION	3	7/24/97	
8530 8500		DRAIN PLUG NOT TIC CESSNA 182B DRTED POWER LOSS A	CONT O470L ND TEMPORARY EN	GINE FAILURE. POST		CYLINDER VG47005A21P N FOUND NR1 CYLINDER	CRACKED NR1 POSITION CRACKED.	3	7/24/97 CA970902015	
		CESSNA 182B DRTED POWER LOSS A CESSNA 340A	CONT O470L ND TEMPORARY EN CONT	GINE FAILURE. POST MCAULY		CYLINDER VG47005A21P N FOUND NR1 CYLINDER	CRACKED NR1 POSITION CRACKED. FAILED	3	7/24/97 CA970902015 4/10/97	
	(CAN) PILOT REPO	CESSNA 182B DRTED POWER LOSS A CESSNA 340A	CONT O470L ND TEMPORARY EN CONT	GINE FAILURE. POST MCAULY		CYLINDER VG47005A21P N FOUND NR1 CYLINDER	CRACKED NR1 POSITION CRACKED. FAILED	3	7/24/97 CA970902015 4/10/97	
8500	(CAN) PILOT REPO	DRAIN PLUG NOT TIC CESSNA 182B DRTED POWER LOSS A CESSNA 340A JE FAILED	CONT O470L ND TEMPORARY EN CONT TSIO520N	GINE FAILURE. POST MCAULY 3AF32C93		CYLINDER VG47005A21P ON FOUND NR1 CYLINDER ENGINE	CRACKED NR1 POSITION CRACKED. FAILED #2 POSITION		7/24/97 CA970902015 4/10/97 CA970903002	
8500	(CAN) PILOT REPO (CAN) NR 2 ENGIN	CESSNA 182B DRTED POWER LOSS A CESSNA 340A RE FAILED CESSNA	CONT O470L  ND TEMPORARY EN CONT TSIO520N  CONT GTSIO520M	GINE FAILURE. POST MCAULY 3AF32C93 MCAULY 3FF32C501	FLIGHT INSPECTIO	CYLINDER VG47005A21P ON FOUND NR1 CYLINDER ENGINE	CRACKED NR1 POSITION CRACKED. FAILED #2 POSITION LOOSE		7/24/97 CA970902015 4/10/97 CA970903002 9/20/97	
8500	(CAN) PILOT REPO (CAN) NR 2 ENGIN	CESSNA  182B  DRTED POWER LOSS A  CESSNA  340A  IE FAILED  CESSNA  404CESSNA	CONT O470L  ND TEMPORARY EN CONT TSIO520N  CONT GTSIO520M	GINE FAILURE. POST MCAULY 3AF32C93 MCAULY 3FF32C501	FLIGHT INSPECTIO	CYLINDER VG47005A21P ON FOUND NR1 CYLINDER ENGINE	CRACKED NR1 POSITION CRACKED. FAILED #2 POSITION LOOSE		7/24/97 CA970902015 4/10/97 CA970903002 9/20/97	
8500 8530	(CAN) PILOT REPO (CAN) NR 2 ENGIN	CESSNA 182B DRTED POWER LOSS A CESSNA 340A JE FAILED CESSNA 404CESSNA FLEXIBLE INDUCTION	CONT O470L ND TEMPORARY EN CONT TSIO520N  CONT GTSIO520M I TRUNK FORWARD	GINE FAILURE. POST MCAULY 3AF32C93 MCAULY 3FF32C501 ATTACHMENT CLAM	FLIGHT INSPECTIO	CYLINDER VG47005A21P ON FOUND NR1 CYLINDER ENGINE CLAMP	CRACKED NR1 POSITION CRACKED. FAILED #2 POSITION  LOOSE RT ENG INDUCTIO		7/24/97 CA970902015 4/10/97 CA970903002 9/20/97 AU971344	
8500 8530	(CAN) PILOT REPO (CAN) NR 2 ENGIN (AUS) RH ENGINE	CESSNA  182B  DRTED POWER LOSS A  CESSNA  340A  RE FAILED  CESSNA  404CESSNA  FLEXIBLE INDUCTION  CESSNA  404CESSNA	CONT O470L ND TEMPORARY EN CONT TSIO520N  CONT GTSIO520M I TRUNK FORWARD CONT GTSIO520M	GINE FAILURE. POST MCAULY 3AF32C93  MCAULY 3FF32C501 ATTACHMENT CLAM MCAULY 3FF32C501	FLIGHT INSPECTION  MP LOOSE.  CONT	CYLINDER VG47005A21P ON FOUND NR1 CYLINDER ENGINE CLAMP COVER	CRACKED NR1 POSITION CRACKED. FAILED #2 POSITION  LOOSE RT ENG INDUCTION  LOOSE CYL ROCKER	ON 615	7/24/97 CA970902015 4/10/97 CA970903002 9/20/97 AU971344 6/29/97 AU971366	
8500 8530	(CAN) PILOT REPO (CAN) NR 2 ENGIN (AUS) RH ENGINE	CESSNA  182B  DRTED POWER LOSS A  CESSNA  340A  RE FAILED  CESSNA  404CESSNA  FLEXIBLE INDUCTION  CESSNA  404CESSNA	CONT O470L ND TEMPORARY EN CONT TSIO520N  CONT GTSIO520M I TRUNK FORWARD CONT GTSIO520M	GINE FAILURE. POST MCAULY 3AF32C93  MCAULY 3FF32C501 ATTACHMENT CLAM MCAULY 3FF32C501	FLIGHT INSPECTION  MP LOOSE.  CONT	CYLINDER VG47005A21P ON FOUND NR1 CYLINDER ENGINE  CLAMP  COVER 53509162	CRACKED NR1 POSITION CRACKED. FAILED #2 POSITION  LOOSE RT ENG INDUCTION  LOOSE CYL ROCKER	ON 615	7/24/97 CA970902015 4/10/97 CA970903002 9/20/97 AU971344 6/29/97 AU971366	
8500 8530 8530	(CAN) PILOT REPO (CAN) NR 2 ENGIN (AUS) RH ENGINE	CESSNA  182B  DRTED POWER LOSS A  CESSNA  340A  IE FAILED  CESSNA  404CESSNA  FLEXIBLE INDUCTION  CESSNA  404CESSNA  LINDER ROCKER COVI	CONT O470L ND TEMPORARY EN CONT TSIO520N  CONT GTSIO520M I TRUNK FORWARD CONT GTSIO520M ER LOOSE. ONE ROC	GINE FAILURE. POST MCAULY 3AF32C93  MCAULY 3FF32C501 ATTACHMENT CLAM MCAULY 3FF32C501 KER SCREW MISSING	FLIGHT INSPECTION  MP LOOSE.  CONT	CYLINDER VG47005A21P ON FOUND NR1 CYLINDER ENGINE  CLAMP  COVER 53509162 AND THE OTHER FOUR SO	CRACKED NR1 POSITION CRACKED. FAILED #2 POSITION  LOOSE RT ENG INDUCTION  LOOSE CYL ROCKER CREWS LOOSE ALLOW	ON 615	7/24/97 CA970902015 4/10/97 CA970903002 9/20/97 AU971344 6/29/97 AU971366 LEAK AT THE GASKET.	

<u>INTERNA</u>	ATIONAL SERVIC	CE DIFFICULTY RE	EPORT SUMMAR	Y - ENGINES (cor	<u>nt'd)</u>		<u>11/23/97 T</u>	o 11/29/97	ISSUE: 97-48 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
8530		DHAV	PWA			CYLINDER	CRACKED		7/31/97
		DHC2MK1	R985AN14B		399353		NR1 POSITION	1322	CA970904018
	(CAN) NR1 CYLIN	DER SEPARATED BETV	WEEN THE TOP OF BA	ARREL AND CYLINDI	ER HEAD AT NR3 FI	N ON THE HEAD AND CRA	ACKED BETWEEN FROM	NT AND REAR	SPARK PLUGS.
8530		DHAV	PWA			CYLINDER	CRACKED	142	8/2/97
		DHC3	R1340*				NR 2		CA970822006
	(CAN) NR2 CYLIN	DER FOUND CRACKED	ON 100 HOUR INSPE	CTION.					
8520		ENSTRM	LYC			CRANKCASE	CRACKED	1866	5/26/97
		280	HIO360C1A			10360CIA	NR2 CYL AREA	316	CA970903009
	( - )					PECTION FOUND A HAIRL THE CRANKCASE HALVES			
7414		FOUND	LYC		BENDIX	CAPACITOR	FAILED	5	6/17/97
		FBA2C	O540A1C5		S6LN21	1051676	MAGNETO		CA970904017
	READINGS. NYLO UNDER A 10X GLA	N PUSHER BLOCK WAS ASS. SUSPECT EITHER I	S MELTED ON THE BI DEFECTIVE CAPACIT	REAKER POINT SIDE ATORS OR THEY MA	INDICATING EXCE AY HAVE BEEN DAM	AL CAPACITANCE METER SSIVE HEAT BUILD UP, BU MAGED FROM HIGH VOLT NT BEING APPLIED. COMF	JT THE CONTACT SURI AGE SPIKERS FROM TI	FACE LOOKEI HE STARTER S	O VISUALLY NORMAL SOLENOID. THERE WAS .7
7260		SKRSKY	ALLSN			SEAL RUNNER	CRACKED		8/15/97
		S76A	250C30S				PTO GEAR		CA970822001

(CAN) SEAL LEAKING AT OUTPUT DRIVE FLANGE ON ENGINE GEARBOX. DURING SEAL REPLACEMENT, IT WAS NOTICED THAT THE PTO GEAR AT THE SEAL LIP CONTACT WAS

CRACKED.

## INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS 11/23/97 - 11/29/97 ISSUE: 97-48 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3457		BEECH	PWA		KING	CIRCUIT BOARD	SHORTED	91	10/15/97
		A100	PT6A28		KLN90B	22831	GPS RECEIVER		CA971020011
	AVIONICS MASTER	RESELECTED ON AND	SMOKE OBSERVED A	AGAIN INVESTIGAT	TION FOUND THE GPS	ATTERY AND BOTH GENE S RECEIVER CIRCUIT BOA THE OPERATOR. MORE IN	RD HAD OVERHEATE		
3452		CESSNA				TRANSPONDER	FAILED		10/31/97
		182Q				RT359A	ATC TRANSPONDER		AU971365
	(AUS) TRANSPONDE	R FAULTY. FOUND DU	RING TEST IAW AD/I	RAD/47 AND AD/RA	D/43				

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS)

### <u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS</u>

11/23/97 - 11/29/97 ISSUE: 97-48 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114		BEECH	CONT	MCAULY		LOW PITCH STOP	MIS ADJUSTED		8/29/97
		A36	IO520BA	2A36C23			PROP	594	CA970910011
	` '	OT GETTING FULL RP CCT REFERENCE STAT		GOVERNOR REMOV	ED FOR BENCH CHE	CK. GOVERNOR SET CORI	RECTLY. PROPELLER	WAS SET TOO	HIGH PREVIOUS
6111		CESSNA	CONT	MCAULY		BLADES	CORRODED	1342	8/15/95
		180	O470K	2A34C66			PROP	531	CA970902016
	(CAN) PROPELLER	RECEIVED FOR CORR	OSION INSPECTION.	CORROSION WAS FO	OUND ON THE PROPE	LLER BLADES AND THE O	CYLINDER WAS FOUN	D TO BE OVER	RSIZE.
6111		CESSNA	CONT	MCAULY		BLADE	OUT OF SPECS	485	8/22/97
		185	IO470F	D2A34C58		S90AT2	PITCH DISTRIBUT		CA970902024
	(CAN) PROPELLER OVERSIZE.	RECEIVED FOR CORR	OSION INSPECTION.	THE PROP BLADES A	AIRFOIL PITCH DISTF	RIBUTION WAS NOT TO SE	PECIFICATIONS. THE F	HUB PILOT TU	BE BORE (P/N 4715) WAS
6114		MOONE	LYC	MCAULY		CYLINDER	OVERSIZE	123	9/2/97
		M20C	O360A1D	C3D36C41582		B5264	PROP SEAL AREA		CA970910009
	(CAN) PROPELLER	RECEIVED FOR CORR	OSION INSPECTION.	THE CYLINDER WAS	FOUND TO BE OVE	RSIZE.			
(End of IN	TERNATIONAL SER	VICE DIFFICULTY R	REPORT SUMMARY	' - PROPELLERS)					



# SERVICE DIFFICULTY REPORT SUMMARY GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

## **GENERAL AVIATION SUMMARY INDEX BY DISTRICT OFFICE**

11/23/97 To 11/29/97 ISSUE: 97-48 ZAC-327

DISTRICT			SDR TOTA	LS BY FAA A	TA SYSTEM	CHAPTER			
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
AU S	0	4	2	0	2	2	0	5	15
CA	0	2	1	0	2	5	12	10	32
EA 17	0	0	0	0	0	0	1	0	1
GL 03	0	0	0	0	0	18	0	0	18
GL 15	0	0	0	0	0	2	0	0	2
GL 21	0	0	0	0	0	0	1	0	1
NE 03	0	0	0	0	0	0	1	0	1
NM 04	0	1	0	0	0	0	1	0	2
NM 09	0	0	0	0	0	0	2	0	2
NM 11	0	0	0	0	0	2	0	0	2
SO 03	0	0	0	0	2	0	0	0	2
SO 15	0	0	1	0	0	0	0	0	1
SW 03	0	44	40	0	7	30	41	0	162
WP 01	0	1	0	0	0	0	0	0	1
WP 09	0	0	0	0	1	0	0	0	1
WP 11	0	1	0	0	0	0	0	0	1
TOTALS	0	53	44	0	14	59	59	15	244
End of GENERAL AVIA	ATION SUMMA	RY INDEX by D	ISTRICT OFFICE	E Report)					

IV- Page 1 of 1

#### GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL

11/23/97 To 11/29/97 ISSUE: 97-48 ZAC-327

AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM ( 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
AEROSP	AS355F1	0	0	0	0	0	1	0	0	1
AEROSP	SA315B	0	0	0	0	2	0	1	0	3
AMTR	LANCAIR	0	1	0	0	0	0	0	0	1
ВЕЕСН	100BEECH	0	0	0	0	0	0	1	0	1
ВЕЕСН	18*	0	0	0	0	0	1	0	0	1
ВЕЕСН	200BEECH	0	1	0	0	0	0	1	0	2
ВЕЕСН	200CBEECH	0	0	1	0	0	0	0	0	1
ВЕЕСН	58	0	0	0	0	0	0	0	1	1
ВЕЕСН	65B80	0	0	0	0	0	2	0	0	2
ВЕЕСН	9555	0	0	0	0	0	1	0	0	1
ВЕЕСН	95B55	0	0	0	0	0	2	0	0	2
ВЕЕСН	A100	0	0	1	0	0	0	0	0	1
ВЕЕСН	A36	0	0	0	0	0	1	0	0	1
ВЕЕСН	B100	0	0	0	0	0	0	1	0	1
ВЕЕСН	E18S9700	0	0	0	0	0	0	1	0	1
ВЕЕСН	E95	0	0	0	0	0	0	0	1	1
ВЕЕСН	F90	0	0	0	0	0	0	1	0	1
BELL	206A	0	0	0	0	0	0	1	0	1
BELL	206B	0	0	0	0	0	0	1	0	1
BELL	206B3	0	0	5	0	0	0	1	0	6
BELL	206L	0	0	0	0	0	0	0	1	1
BELL	206L1	0	4	8	0	0	0	1	0	13
BELL	206L3	0	8	4	0	1	7	4	0	24
BELL	206L4	0	0	0	0	0	0	1	0	1
BELL	212	0	3	1	0	0	0	3	0	7
BELL	214ST	0	4	1	0	0	0	2	0	7
BELL	230	0	0	0	0	0	1	0	0	1

GENERAL AV	TATION SUMMARY	INDEX by MANU	FACTURER N	MAKE and MOD	DEL (cont'd)			11/23/97 To	11/29/97 ISSUI	E: 97-48 ZAC-327
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM (51-57	CHAPTER 61-67	71-79	80-85	TOTAL
BELL	412	0	8	12	0	2	7	14	0	43
BELL	47G3B1	0	0	0	0	0	1	0	0	1
BLANCA	1731A	0	0	0	0	0	0	1	0	1
BNORM	BN2A27	0	0	0	0	0	0	0	1	1
BOEING	1072	0	0	0	0	0	0	1	0	1
BOLKMS	BK117A3	0	2	0	0	0	0	0	0	2
BOLKMS	BK117B1	0	0	0	0	0	2	0	0	2
BOLKMS	BK117B2	0	1	1	0	0	0	0	0	2
BOLKMS	BO105C	0	0	0	0	0	0	1	0	1
BOLKMS	BO105S	0	8	3	0	1	5	12	0	29
CESSNA	150C	0	0	0	0	0	0	1	0	1
CESSNA	152	0	0	0	0	0	0	0	1	1
CESSNA	152	0	0	0	0	0	1	0	0	1
CESSNA	172N	0	0	0	0	0	0	1	1	2
CESSNA	172N	0	0	0	0	2	0	0	0	2
CESSNA	180	0	0	0	0	0	2	0	0	2
CESSNA	182B	0	0	0	0	0	0	0	1	1
CESSNA	182Q	0	0	1	0	0	0	0	0	1
CESSNA	185	0	0	0	0	0	1	0	0	1
CESSNA	188CESSNA	0	0	0	0	0	2	0	0	2
CESSNA	208B	0	0	0	0	0	1	0	0	1
CESSNA	210C	0	1	0	0	0	0	0	0	1
CESSNA	210M	0	0	0	0	1	0	0	0	1
CESSNA	310	0	0	0	0	0	3	0	0	3
CESSNA	310Q	0	1	0	0	0	0	0	0	1
CESSNA	310Q	0	0	0	0	0	1	0	0	1
CESSNA	310R	0	0	0	0	0	2	0	0	2

GENERAL AV	IATION SUMMARY	NDEX by MANU	FACTURER N	MAKE and MOI	DEL (cont'd)			11/23/97 To	11/29/97 ISSUI	E: 97-48 ZAC-327
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA <i>A</i> 45-49	TA SYSTEM 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
CESSNA	340A	0	0	0	0	0	0	1	1	2
CESSNA	402C	0	1	0	0	0	0	0	0	1
CESSNA	404CESSNA	0	0	1	0	0	0	0	3	4
CESSNA	414	0	0	0	0	0	1	0	0	1
CESSNA	550	0	0	0	0	1	0	0	0	1
CESSNA	A185F	0	1	0	0	0	0	0	0	1
CESSNA	R172K	0	0	0	0	0	0	0	1	1
DHAV	DHC2MK1	0	1	0	0	0	0	0	1	2
DHAV	DHC2MK3	0	0	0	0	1	0	0	0	1
DHAV	DHC3	0	0	0	0	0	0	1	1	2
DHAV	DHC6300	0	0	0	0	0	1	0	0	1
ENSTRM	280	0	0	0	0	0	0	0	1	1
FOUND	FBA2C	0	0	0	0	0	0	1	0	1
HUGHES	369D	0	0	0	0	0	1	0	0	1
HUGHES	369HS	0	0	0	0	1	0	0	0	1
KAMAN	K1200	0	0	0	0	0	2	0	0	2
MOONEY	M20C	0	0	0	0	0	1	0	0	1
MTSBSI	MU2*	0	0	0	0	0	1	0	0	1
PIPER	PA28140	0	1	0	0	0	0	0	0	1
PIPER	PA28151	0	1	0	0	0	0	0	0	1
PIPER	PA28181	0	0	0	0	0	0	1	0	1
PIPER	PA31350	0	1	0	0	0	0	0	0	1
PIPER	PA34200	0	0	0	0	0	1	0	0	1
PIPER	PA38112	0	0	0	0	1	0	0	0	1
PIPER	PA46310P	0	0	1	0	0	0	0	0	1
SKRSKY	S64A	0	0	0	0	0	0	1	0	1
SKRSKY	S76A	0	4	4	0	0	6	2	0	16

GENERAL AV	GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL (cont'd)									E: 97-48 ZAC-327
AIRCRAFT	<b>AIRCRAFT</b>		SDR TOTALS BY FAA ATA SYSTEM CHAPTER							
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
SNIAS	AS350B	0	0	0	0	0	1	0	0	1
SNIAS	AS350B2	0	1	0	0	1	0	1	0	3
	TOTALS 0 53 44 0 14 59 59 15 244									
(End of AIR CA	(End of AIR CARRIER SUMMARY INDEX by OPERATOR Report)									

## JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

#### **PREFACE**

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

# **JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE**

# JASC/ TITLE

2170 HUMIDITY CONTROL SYSTEM

11 PLACARDS AND	MARKINGS 22	AUTO FLIGHT	24 E	LECTRICAL POWER CONT'D
1100 PLACARDS AND N	MARKINGS 2200	AUTO FLIGHT SYSTEM	2424	AC REGULATOR
	2210		2425	AC INDICATING SYSTEM
12 SERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM
<u> 12 021(11011(0</u>	2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM
1010 5050 0500000	2213	FLIGHT CONTROLLER	2432	BATTERY/CHARGER SYSTEM
1210 FUEL SERVICING	2214	AUTOPILOT TRIM INDICATOR	2433	DC RECTIFIER-CONVERTER
1220 OIL SERVICING	2215	AUTOPILOT MAIN SERVO	2434	DC GENERATOR-ALTERNATOR
1230 HYDRAULIC FLUID	2216	AUTOPILOT TRIM SERVO	2435	STARTER-GENERATOR
1240 COOLANT SERVIC	ING 2220	SPEED-ATTITUDE CORRECT. SYSTEM	2436	DC REGULATOR
40 HELICOPTED VIDE	2230	AUTO THROTTLE SYSTEM	2437	DC INDICATING SYSTEM
18 HELICOPTER VIBE	2250	A ERODYNAMIC LOAD ALLEVIATING	2440	EXTERNAL POWER SYSTEM
1800 HELICOPTER VIB/I	NOISE ANALYSIS		2450	AC POWER DISTRIBUTION SYSTEM
1810 HELICOPTER VIBR	ATION ANALYSIS 23	COMMUNICATIONS	2460	DC POWER/DISTRIBUTION SYSTEM
1820 HELICOPTER NOIS	E ANALYSIS			
24 AIR CONDITIONIA	2300		<u> 25 E</u>	QUIPM ENT/FURNISHINGS
21 AIR CONDITIONIN			0500	CARIN FOURMENT/FURNIOUMO
2100 AIR CONDITIONIN	G SYSTEM 2311	UHF COMMUNICATION SYSTEM	2500	CABIN EQUIPMENT/FURNISHINGS
2110 CABIN COMPRESS	2312	VHF COMMUNICATION SYSTEM	2510	FLIGHT COMPARTMENT EQUIPMENT
2120 AIR DISTRIBUTION	2220	DATA TRANSMISSION AUTO CALL	2520	PASSENGER COMPARTMENT EQUIPMENT
2121 AIR DISTRIBUTION	2330	ENTERTAINMENT SYSTEM	2530	BUFFET/GALLEYS
	CONTROL SYSTEM 2340	INTERPHONE & PA SYSTEM	2540	LAVATORIES
2131 CABIN PRESSURE	2250	AUDIO INTEGRATING SYSTEM	2550	CARGO COMPARTMENTS
2132 CABIN PRESSURE	2260	STATIC DISCHARGE SYSTEM	2551	AGRICULTURAL SPRAY SYSTEM
	/OUTFLOW VALVE 2370	AUDIO/VIDEO MONITORING	2560	EMERGENCY EQUIPMENT
2134 CABIN PRESSURE		ELECTRICAL POWER	2561	LIFE JACKET
2140 HEATING SYSTEM	- · · ·	<u> LEEGTRIOAL TOWER</u>	2562	EMERGENCY LOCATOR BEACON
2150 CABIN COOLING S		ELECTRICAL POWER SYSTEM	2563	PARACHUTE
	URE CONTROL SYSTEM 2410	ALTERNATOR-GENERATOR DRIVE	2564	LIFE RAFT
	URE CONTROLLER 2420		2565	ESCAPE SLIDE
2162 CABIN TEMPERAT			2570	ACCESSORY COMPARTMENT
2163 CABIN TEMPERAT	****		2571	BATTERY BOX STRUCTURE
	0112 02110011		2572	ELECTRONIC SHELF SECTION

2423 PHASE ADAPTER

26 FIRE PROTECTION	29 F	HYDRAULIC POWER	<u>32 L</u>	ANDING GEAR
2600 FIRE PROTECTION SYSTEM	2900	HYDRAULIC POWER SYSTEM	3200	LANDING GEAR SYSTEM
2610 DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611 SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612 FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613 OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620 EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621 FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622 FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
AZ FILOUT CONTROLO	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
27 FLIGHT CONTROLS	2920	HYDRAULIC, AUXILIARY SYSTEM	3230	LANDING GEAR RETRACT/EXT. SYSTEM
2700 FLIGHT CONTROL SYSTEM	2921	HYDRAULIC ACCUMULATOR-AUXILIARY	3231	LANDING GEAR DOOR RETRACT SECTION
2701 CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710 AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
2711 AILERON TAB CONTROL SYSTEM	2925	HYDRAULIC PRESSURE RELIEF-AUXILIARY	3234	LANDING GEAR SELECTOR
2720 RUDDER CONTROL SYSTEM	2926	HYDRAULIC RESERVOIR-AUXILIARY	3240	LANDING GEAR BRAKE SYSTEM
2721 RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
2722 RUDDER ACTUATOR	2930	HYDRAULIC SYSTEM INDICATING	3242	BRAKE
2730 ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731 ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740 STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741 STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742 STABILIZER ACTUATOR	30 I	CE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750 TE FLAP CONTROL SYSTEM			3251	STEERING UNIT
2751 TE FLAP POSITION IND. SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3252	SHIMMY DAMPER
2752 TE FLAP ACTUATOR	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760 DRAG CONTROL SYSTEM	3020	AIR INTAKE ANTI/DE-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761 DRAG CONTROL ACTUATOR	3030	PITOT/STATIC ANTI-ICE SYSTEM	33 I	<u>IGHTS</u>
2770 GUST LOCK/DAMPER SYSTEM	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL		
2780 LE FLAP CONTROL SYSTEM	3050	ANTENNA/RADOME ANTI-ICE/DE-ICE SYSTEM	3300	LIGHTING SYSTEM
2781 LE FLAP POSITION IND. SYSTEM	3060	PROP/ROTOR ANTI-ICE/DE-ICE SYSTEM	3310	FLIGHT COMPARTMENT LIGHTING
2782 LE FLAP ACTUATOR	3070	WATER LINE ANTI-ICE SYSTEM	3320	PASSENGER COMPARTMENT LIGHTING
28 FUEL	3080	ICE DETECTION	3330	CARGO COMPARTMENT LIGHTING
2800 AIRCRAFT FUEL SYSTEM	<u>31 I</u>	<u>NSTRUMENTS</u>	3340 3350	EXTERIOR LIGHTING EMERGENCY LIGHTING
2810 FUEL STORAGE	3100	INDICATING/RECORDING SYSTEM		
2820 ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL	<u>34 N</u>	AVIGATION
2821 ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822 FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823 FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL COMPUTERS (EICAS)	3411	PITOT/STATIC SYSTEM
2824 FUEL TRANSFER VALVE	3150	CENTRAL WARNING	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830 FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATOR
2840 ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841 FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
2842 FUEL QUANTITY SENSOR			3416	ALTIMETER, BAROMETRIC/ENCODER
2843 FUEL TEMPERATURE INDICATING				

2844 FUEL PRESSURE INDICATOR

34 NAVIGATION CONT'D	37 VACUUM	5247 APU DOORS
3417 AIR DATA COMPUTER	3700 VACUUM SYSTEM	5248 TAIL CONE DOORS
3418 STALL WARNING SYSTEM	3710 VACUUM DISTRIBUTION SYSTEM	5250 FIXED INNER DOORS
3420 ATTITUDE AND DIRECTION DAT	A SYSTEM 3720 VACUUM INDICATING SYSTEM	5260 ENTRANCE STAIRS
3421 ATTITUDE GYRO & IND. SYSTEM	1	5270 DOOR WARNING SYSTEM
3422 DIRECTIONAL GYRO & IND. SYS	38 WAIER/WASIE	5280 LANDING GEAR DOORS
3423 MAGNETIC COMPASS	3800 WATER & WASTE SYSTEM	53 FUSELAGE
3424 TURN & BANK/RATE OF TURN II	NDICATOR 3810 POTABLE WATER SYSTEM	5300 FUSELAGE STRUCTURE (GENERAL)
3425 INTEGRATED FLT. DIRECTOR SY	STEM 3820 WASH WATER SYSTEM	5301 AERIAL TOW EQUIPMENT
3430 LANDING & TAXI AIDS	3830 WASTE DISPOSAL SYSTEM	5302 ROTORCRAFT TAIL BOOM
3431 LOCALIZER/VOR SYSTEM	3840 AIR SUPPLY (WATER PRESS. SYSTEM	M) 5310 FUSELAGE MAIN STRUCTURE
3432 GLIDE SLOPE SYSTEM 3433 MICROWAVE LANDING SYSTEM	45 CENTRAL MAINT. SYSTEM	5311 FUSELAGE MAIN FRAME 5312 FUSELAGE MAIN BULKHEAD
3434 MARKER BEACON SYSTEM	4500 CENTRAL MAINT. COMPUTER	5312 FUSELAGE MAIN BULKHEAD 5313 FUSELAGE MAIN LONGERON/STRINGER
3435 HEADS UP DISPLAY SYSTEM	OENTINE MINISTER	5314 FUSELAGE MAIN KEEL
3436 WIND SHEAR DETECTION SYSTI	49 AIRBORNE AUXILIARY POWER	5314 FUSELAGE MAIN REEL 5315 FUSELAGE MAIN FLOOR BEAM
3440 INDEPENDENT POS. DETERMINI	NO CYCTEM	5320 FUSELAGE MISCELLANEOUS STRUCTURE
3441 INERTIAL GUIDANCE SYSTEM	4900 AINBONNE AFO STSTEM	5321 FUSELAGE FLOOR PANEL
3442 WEATHER RADAR SYSTEM	4910 A PU COW LING/CONTAINMENT	5322 FUSELAGE INTERNAL MOUNT STRUCTURE
3443 DOPPLER SYSTEM	4920 APU CORE ENGINE	5323 FUSELAGE INTERNAL STAIRS
3444 GROUND PROXIMITY SYSTEM	4930 A PU ENGINE FUEL & CONTROL	5324 FUSELAGE FIXED PARTITIONS
3445 AIR COLLISION AVOIDANCE SY	4940 A PU START/IGNITION SYSTEM STEM (TCAS) 4950 A PU BLEED AIR SYSTEM	5330 FUSELAGE MAIN PLATE/SKIN
3446 NON RADAR WEATHER SYSTEM	4930 AFO BEEED AIR STOTEM	5340 FUSELAGE MAIN ATTACH FITTINGS
3450 DEPENDENT POSITION DETERM	NINC SYSTEM 4900 AFO CONTROLS	5341 WING ATTACH FITTINGS (ON FUSELAGE)
3451 DME/TACAN SYSTEM	4970 APO INDICATING SYSTEM	5342 STABILIZER ATTACH FITTINGS
3452 ATC TRANSPONDER SYSTEM		5343 LANDING GEAR ATTACH FITTINGS
3453 LORAN SYSTEM	4990 APU OIL SYSTEM	5344 FUSELAGE DOOR HINGES
3454 VOR SYSTEM	51 STANDARD PRACTICES/STRUCT	
3455 ADF SYSTEM		5346 DOWEDDIANT ATTACH FITTINGS
3456 OMEGA NAVIGATION SYSTEM	5100 STANDARD PRACTICES/STRUCTURE	5347 SEAT/CARGO ATTACH FITTINGS
3457 GLOBAL POSITIONING SYSTEM	5101 AIRCRAFT STRUCTURES	5350 FUSELAGE AERODYNAMIC FAIRINGS
3460 FLIGHT MANAGE. COMPUTING	SYSTEM 5102 BALLOON REPORTS	54 NACELLES/PYLONS
25 OVVCEN	52 DOORS	
35 OXYGEN	<u>52 DOORS</u>	5400 NACELLE/PYLON STRUCTURE
3500 OXYGEN SYSTEM	5200 DOORS	5410 MAIN FRAME (ON NACELLE/PYLON)
3510 CREW OXYGEN SYSTEM	5210 PASSENGER/CREW DOORS	5411 FRAME/SPAR/RIB(NACELLE/PYLON)
3520 PASSENGER OXYGEN SYSTEM	5220 EMERGENCY EXIT	5412 BULKHEAD/FIREWALL (NAC/PYLON)
3530 PORTABLE OXYGEN SYSTEM	5230 CARGO/BAGGAGE DOORS	5413 LONGERON/STRINGER (NAC/PYLON)
36 PNEUMATIC	5240 SERVICE DOORS	5414 PLATE SKIN (NAC/PYLONS)
	5241 GALLEY DOORS	5415 ATTACH FITTINGS (NAC/PYLON)
3600 PNEUMATIC SYSTEM	5242 F/E COMPARTMENT DOORS	<u>55 STABILIZERS</u>
3610 PNEUMATIC DISTRIBUTION SYS	TEM 5243 HYDRAULIC COMPARTMENT DOORS	5500 EMPENNAGE STRUCTURE
3620 PNEUMATIC INDICATING SYSTE	M 5244 ACCESSORY COMPARTMENT DOORS	
	5245 AIR CONDITIONING COMPART. DOOR	RS 5511 HORIZONTAL STABILIZER SPAR/RIB
	5246 FLUID SERVICE DOORS	5512 HORIZONTAL STABILIZER PLATE/SKIN
		5513 HORIZONTAL STABILIZER TAB STRUCTURE
		5520 ELEVATOR STRUCTURE

55 STABILIZERS CONT'D	61 PROPELLERS/PROPULSORS	67 ROTORS FLIGHT CONTROL
5521 ELEVATOR SPAR/RIB STRUCTURE	6100 PROPELLER SYSTEM	6700 ROTORCRAFT FLIGHT CONTROL
5522 ELEVATOR PLATES/SKIN STRUCTURE	6110 PROPELLER ASSEMBLY	6710 MAIN ROTOR CONTROL
5523 ELEVATOR TAB STRUCTURE	6111 PROPELLER BLADE SECTION	6711 TILT ROTOR FLIGHT CONTROL
5530 VERTICAL STABILIZER STRUCTURE	6112 PROPELLER DE-ICE BOOT SECTION	6720 TAIL ROTOR CONTROL SYSTEM
5531 VERTICAL STABILIZER SPAR/RIB STRUCTURE	6113 PROPELLER SPINNER SECTION	6730 ROTORCRAFT SERVO SYSTEM
5532 VERTICAL STABILIZER PLATES/SKIN	6114 PROPELLER HUB SECTION	
5533 VENTRAL STRUCTURE (ON VERT. STAB)	6120 PROPELLER CONTROL SYSTEM	71 POWERPLANT
5540 RUDDER STRUCTURE	6121 PROPELLER SYNCHRONIZER SECTION	7100 POWERPLANT SYSTEM
5541 RUDDER SPAR/RIB STRUCTURE	6122 PROPELLER GOVERNOR	7110 ENGINE COWLING SYSTEM
5542 RUDDER PLATE/SKIN STRUCTURE	6123 PROPELLER FEATHERING/REVERSING	7111 COWL FLAP SYSTEM
5543 RUDDER TAB STRUCTURE	6130 PROPELLER BRAKING	7112 ENGINE AIR BAFFLE SECTION
5550 EMPENNAGE FLT. CONT. ATTACH FITTING	6140 PROPELLER INDICATING SYSTEM	7120 ENGINE MOUNT SECTION
5551 HORIZONTAL STABILIZER ATTACH FITTING		7130 ENGINE FIRESEALS
5552 ELEVATOR/TAB ATTACH FITTINGS	62 MAIN ROTOR	7160 ENGINE AIR INTAKE SYSTEM
5553 VERT. STAB. ATTACH FITTINGS	6200 MAIN ROTOR SYSTEM	7170 ENGINE DRAINS
5554 RUDDER/TAB ATTACH FITTINGS	6210 MAIN ROTOR BLADES	
	6220 MAIN ROTOR HEAD	72 TURBINE/TURBOPROP ENGINE
56 WINDOWS	6230 MAIN ROTOR MAST/SWASHPLATE	7200 ENGINE (TURBINE/TURBOPROP)
5600 WINDOW/WINDSHIELD SYSTEM	6240 MAIN ROTOR INDICATING SYSTEM	7210 TURBINE ENGINE REDUCTION GEAR
5610 FLIGHT COMPARTMENT WINDOWS		7220 TURBINE ENGINE AIR INLET SECTION
5620 PASSENGER COMPARTMENT WINDOWS	63 MAIN ROTOR DRIVE	7230 TURBINE ENGINE COMPRESSOR SECTION
5630 DOOR WINDOWS	6300 MAIN ROTOR DRIVE SYSTEM	7240 TURBINE ENGINE COMBUSTION SECTION
5640 INSPECTION WINDOWS	6310 ENGINE/TRANSMISSION COUPLING	7250 TURBINE SECTION
3040 MOI EOTION WINDOWS	6320 MAIN ROTOR GEARBOX	7260 TURBINE ENGINE ACCESSORY DRIVE
57 WINGS	6321 MAIN ROTOR BRAKE	7261 TURBINE ENGINE OIL SYSTEM
5700 WING STRUCTURE	6322 ROTORCRAFT COOLING FAN SYSTEM	7270 TURBINE ENGINE BYPASS SECTION
5710 WING MAIN FRAME STRUCTURE	6330 MAIN ROTOR TRANSMISSION MOUNT	
5711 WING SPAR STRUCTURE	6340 ROTOR DRIVE INDICATING SYSTEM	73 ENGINE FUEL & CONTROL
5712 WING STAR STRUCTURE		7300 ENGINE FUEL & CONTROL
5713 WING KID STRUCTURE 5713 WING LONGERON/STRINGER	64 TAIL ROTOR	7310 ENGINE FUEL DISTRIBUTION
5714 WING CENTER BOX	6400 TAIL ROTOR SYSTEM	7311 ENGINE FUEL-OIL COOLER
5720 WING MISCELLANEOUS STRUCTURE	6410 TAIL ROTOR BLADE	7312 FUEL HEATER
5730 WING PLATES/SKINS	6420 TAIL ROTOR HEAD	7313 FUEL INJECTOR NOZZLE
5740 WING ATTACH FITTINGS	6440 TAIL ROTOR INDICATING SYSTEM	7314 ENGINE FUEL PUMP
5741 WING, FUSELAGE ATTACH FITTINGS		7320 FUEL CONTROLLING SYSTEM
5742 WING, NAC/PYLON ATTACH FITTINGS	65 TAIL ROTOR DRIVE	7321 FUEL CONTROL/ELECTRONIC
5743 WING, LANDING GEAR ATTACH FITTINGS		7322 FUEL CONTROL/CARBURETOR
5744 CONTROL SURFACE ATTACH FITTINGS	6500 TAIL ROTOR DRIVE SYSTEM	7323 TURBINE GOVERNOR
5750 WING CONTROL SURFACE STRUCTURE	6510 TAIL ROTOR DRIVE SHAFT	7324 FUEL DIVIDER
5751 AILERON STRUCTURE	6520 TAIL ROTOR GEARBOX	7330 ENGINE FUEL INDICATING SYSTEM
5751 AILERON STRUCTURE	6540 TAIL ROTOR DRIVE INDICATING SYSTEM	7331 FUEL FLOW INDICATING
5753 TE FLAP STRUCTURE		7332 FUEL PRESSURE INDICATING
5754 LEADING EDGE DEVICE STRUCTURE		7333 FUEL FLOW SENSOR
5755 SPOILER STRUCTURE		7333 FUEL PRESSURE SENSOR
3733 SPUILER STRUCTURE		1007 I DEL I NEODONE DENDON

74	<u>IGNITION</u>	<u>78 E</u>	ENGINE EXHAUST	8530	RECIPROCATING ENGINE CYLINDER SECTION
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	8540	RECIPROCATING ENGINE REAR SECTION
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	8550	RECIPROCATING ENGINE OIL SYSTEM
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR		
7412	EXCITER	7830	THRUST REVERSER		
7413	INDUCTION VIBRATOR				
7414	MAGNETO/DISTRIBUTOR	79 I	ENGINE OIL		
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>			
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)		
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)		
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)		
<u>75</u>	<u>AIR</u>	7921	ENGINE OIL COOLER		
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR		
7510	ENGINE ANTI-ICING SYSTEM	7923	OIL SHUTOFF VALVE		
7520	ENGINE COOLING SYSTEM	7930	ENGINE OIL INDICATING SYSTEM		
	COM PRESSOR BLEED CONTROL	7931	ENGINE OIL PRESSURE		
7530	COMPRESSOR BLEED CONTROL  COMPRESSOR BLEED GOVERNOR	7932	ENGINE OIL QUANTITY		
7531	COMPRESSOR BLEED GOVERNOR  COMPRESSOR BLEED VALVE	7933	ENGINE OIL TEMPERATURE		
7532					
7540	BLEED AIR INDICATING SYSTEM	80 9	<u>STARTING</u>		
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM		
7600	ENGINE CONTROLS	8010	ENGINE CRANKING		
7600	ENGINE CONTROLS  ENGINE SYNCHRONIZING	8011	ENGINE STARTER		
7601		8012	ENGINE START VALVES/CONTROLS		
7602	MIXTURE CONTROL	0012	ENGINE OTAKT VALVEO/OONTROLO		
7603	POWER LEVER	81	TURBOCHARGING		
7620	ENGINE EMERGENCY SHUTDOWN SYSTEM		<u> </u>		
77	ENGINE INDICATING	8100	EXHAUST TURBINE SYSTEM (RECIP)		
		8110	POWER RECOVERY TURBINE (RECIP)		
7700	ENGINE INDICATING SYSTEM	8120	EXHAUST TURBOCHARGER		
7710	POWER INDICATING SYSTEM				
7711	ENGINE PRESSURE RATIO (EPR)	<u>82</u>	WATER INJECTION		
7712	ENGINE BM EP/TORQUE INDICATING	8200	WATER INJECTION SYSTEM		
7713	MANIFOLD PRESSURE (MP) INDICATING				
7714	ENGINE RPM INDICATING SYSTEM	83	ACCESSORY GEARBOXES		
7720	ENGINE TEMP. INDICATING SYSTEM	8300	ACCESSORY GEARBOXES		
7721	CYLINDER HEAD TEMP (CHT) INDICATING	0000	NOOLOGOKT GEMIDONEG		
7722	ENG. EGT/TIT INDICATING SYSTEM	8.5	RECIPROCATING ENGINE		
7730	ENGINE IGNITION ANALYZER SYSTEM				
7731	ENGINE IGNITION ANALYZER	8500	ENGINE (RECIPROCATING)		
7732	ENGINE VIBRATION ANALYZER	8510	RECIPROCATING ENGINE FRONT SECTIO		
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	N	

## **MECHANICS CREED**

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.